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OM nucleic - nucleic search, using sw model

Run on: June 26, 2005, 21:04:48 ; Search time 3818 Seconds
(without alignments)
11251.914 Million cell updates/sec

Title: US-09-840-743-5

Perfect score: 6873

Sequence: 1 gttctccgcatgtactgc.....aaaaaaaaaaactcgag 6873

Scoring table: IDENTITY NUC

Gapop 10_0 , Gapext 1.0

Searched: 6067389 seqs, 3125258755 residues

Total number of hits satisfying chosen parameters: 12134778

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
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- 7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
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- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*
- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
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- 17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
- 18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*
- 19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq.*
- 20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq.*
- 21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq.*
- 22: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq.*
- 24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
- 26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6873	100.0	6873	10	US-09-840-743-5 Sequence 5, Appli
2	4790.2	69.7	10620	10	US-09-840-743-7 Sequence 7, Appli
3	4788.6	69.7	12785	10	US-09-840-743-1 Sequence 1, Appli
4	1478	21.5	1478	10	US-09-840-743-6 Sequence 6, Appli
5	1478	21.5	2066	21	US-10-966-482-15 Sequence 15, Appli
6	723.8	10.5	6418	19	US-10-437-963-37689 Sequence 37689, A
7	676.2	9.8	2775	20	US-10-425-115-107694 Sequence 107694,

C	8	657	9.6	2380	18	US-10-425-114-31374	Sequence 31374, A
	9	643	9.4	3769	19	US-10-437-963-12410	Sequence 12410, A
	10	579	8.4	2294	18	US-10-425-114-33288	Sequence 33288, A
	11	575	8.4	2917	20	US-10-425-115-107691	Sequence 107691, A
	12	523.8	7.6	1654	18	US-10-425-114-8721	Sequence 8721, Ap
	13	523.8	7.6	1696	18	US-10-424-599-28644	Sequence 28644, A
	14	411.8	6.0	758	10	US-09-840-743-44	Sequence 44, Appl
	15	399.6	5.8	1543	18	US-10-425-114-4526	Sequence 4526, Ap
	16	398	5.8	1592	20	US-10-425-115-177698	Sequence 177698, A
	17	352.6	5.1	638	10	US-09-840-743-34	Sequence 34, Appl
C	18	351.6	5.1	657	10	US-09-840-743-42	Sequence 42, Appl
	19	346.4	5.0	754	18	US-10-424-599-14880	Sequence 14880, A
	20	338.8	4.9	766	10	US-09-840-743-50	Sequence 50, Appl
	21	329	4.8	1134	10	US-09-840-743-36	Sequence 36, Appl
	22	261	3.8	1309	20	US-10-425-115-177687	Sequence 177687, A
	23	253	3.7	616	10	US-09-840-743-38	Sequence 38, Appl
	24	250.6	3.6	706	19	US-10-437-963-35749	Sequence 35749, A
	25	233	3.4	798	10	US-09-840-743-21	Sequence 21, Appl
	26	228.2	3.3	517	10	US-09-840-743-48	Sequence 48, Appl
	27	227.6	3.3	954	18	US-10-425-114-31736	Sequence 31736, A
C	28	219.6	3.2	583	10	US-09-840-743-52	Sequence 52, Appl
	29	208.2	3.0	549	19	US-10-437-963-100064	Sequence 100064, A
	30	205	3.0	205	10	US-09-840-743-4	Sequence 4, Appl
	31	201	2.9	1248	18	US-10-425-114-1998	Sequence 1998, Ap
	32	201	2.9	1256	20	US-10-425-115-107693	Sequence 107693, A
	33	191.8	2.8	595	10	US-09-840-743-58	Sequence 58, Appl
	34	190.4	2.8	447	11	US-09-732-627A-3570	Sequence 3570, Ap
	35	188.8	2.7	449	11	US-09-732-627A-4613	Sequence 4613, Ap
	36	184	2.7	1312	9	US-09-938-842A-3803	Sequence 3803, Ap
	37	184	2.7	1312	11	US-09-938-842A-3803	Sequence 3803, Ap
C	38	181.8	2.6	2623	18	US-10-425-114-34026	Sequence 34026, A
	39	181.8	2.6	2672	20	US-10-425-115-32143	Sequence 32143, A
	40	179.8	2.6	640	10	US-09-840-743-60	Sequence 60, Appl
	41	167.6	2.4	663	18	US-10-424-599-46031	Sequence 46031, A
	42	159.8	2.3	535	19	US-10-767-701-1085	Sequence 1085, Ap
	43	154	2.2	557	10	US-09-840-743-26	Sequence 26, Appl
	44	151	2.2	439	10	US-09-840-743-28	Sequence 28, Appl
	45	144.6	2.1	422	19	US-10-767-701-17492	Sequence 17492, A

ALIGNMENTS

RESULT 1
US-09-840-743-5
; Sequence 5, Application US/09840743
; Publication No. US20030135890A1
; GENERAL INFORMATION: Robert L.
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
; APPLICANT: Hannon, Mike
; APPLICANT: Okumuro, Jack Kishiro
; APPLICANT: Tatarinova, Tatiana Valerievna
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids That Control Plant Development
; FILE REFERENCE: 023070-099910US
; CURRENT APPLICATION NUMBER: US/09/840,743
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 09/553,690
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 6873
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: DMT cDNA
US-09-840-743-5

Query Match 100.0%; Score 6873; DB 10; Length 6873;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 6873; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 241 TTTTGATTTCTGCGTAATAAAAACTCTGATTTTCTTTTATCTTCACTTTCCCATAAAAAT 300
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Db 301 TCGTTACTTTTATTCGTCCTTTTACCTTTTCCAGCTTAAAAAATTTCTTCGCTATTCAT 360
QY 361 GTGTTTCTCGTTTGTGATGAGAAATATCTGACAAAAATCATTTATTCATTTTAT 420
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QY 421 GGTGCAGATTTCTAGTTAATGTGCGCTTCTTAAACCAAGTCAGATTAAAAAGGATGTT 480
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QY 1141 ATAGCTTATTTCAAGGTTCTGATGTGAGTGATCAAAATCTATTTTTCAGTTTTTTTTTC 1200
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Db 1261 CATGTGTTTTGAACAGATGAGACCTCCAGCGGTGAAACAGCTCTTTTCAATTTGAATTCAC 1320
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QY 1501 CTGCTGTTAATCGGACGGAAGCTACTGAAACAAAATGATGGCAGACAGAAATGTTCTGG 1560
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QY 1561 AGTTTCAGCTTAAACAAAATCCTCAGCAGAAACCTTCCAAAAGGAAAGGATTCATGC 1620
Db 1561 AGTTTCAGCTTAAACAAAATCCTCAGCAGAAACCTTCCAAAAGGAAAGGATTCATGC 1620
QY 1621 CCAAGGTGCTGAGGAGGCAAACTTAAAGAAAGCCACGAAAGCTGCAGAACTTCCCA 1680
Db 1621 CCAAGGTGCTGAGGAGGCAAACTTAAAGAAAGCCACGAAAGCTGCAGAACTTCCCA 1680
QY 1681 AAGTGGTCTGAGGAGGCAAACTTAAAGAAAGCCACGAAAGCTGCAGGAAAAAG 1740
Db 1681 AAGTGGTCTGAGGAGGCAAACTTAAAGAAAGCCACGAAAGCTGCAGGAAAAAG 1740
QY 1741 TGAATCTTAAAGAAACCGGAGTGCCTAAAGAAAGGAAATTTTGAAGAAATCAGCAACTAAA 1800
Db 1741 TGAATCTTAAAGAAACCGGAGTGCCTAAAGAAAGGAAATTTTGAAGAAATCAGCAACTAAA 1800
QY 1801 AGCCAGCCAATGTTGGAGATATGACCAACAAAGCCCTGAAGTCACTCAAAAGTTGCA 1860
Db 1801 AGCCAGCCAATGTTGGAGATATGACCAACAAAGCCCTGAAGTCACTCAAAAGTTGCA 1860
QY 1861 GAAAACTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGA 1920
Db 1861 GAAAACTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGA 1920
QY 1921 CTGAAATTTGTCAGACAGTGTGCGCAAACTCCTTTTCTGAGATCAGAGTGCATTTG 1980
Db 1921 CTGAAATTTGTCAGACAGTGTGCGCAAACTCCTTTTCTGAGATCAGAGTGCATTTG 1980
QY 1981 GTGGAATTAATGTTAGTTTCTTGAATTCAGTGTCAAAATAGACAAAGCCAAATGGATTGG 2040
Db 1981 GTGGAATTAATGTTAGTTTCTTGAATTCAGTGTCAAAATAGACAAAGCCAAATGGATTGG 2040
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Db 2041 GGGCTATGAAACGAGCACTTGAAGTGTCAATGGGAAAACGAGCAGATAACTATCTACAG 2100
QY 2101 GAGCCAACTGGCAGACCAACCTGATTTTATTCAGTGTAGAAACCGAGCAATGCCAGT 2160
Db 2101 GAGCCAACTGGCAGACCAACCTGATTTTATTCAGTGTAGAAACCGAGCAATGCCAGT 2160
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Db	4441	ATTGGCAACAACACTCCTTCCAGCAGCTATGACAGTGTGCGACTCGACGCGCACATGTAC	4500
QY	4501	TAGACATAGAGATTTTGGAAATGCAAGGTGAAGGCTTGGTTATTCTTGGATGTCATCT	4560
Db	4501	TAGACATAGAGATTTTGGAAATGCAAGGTGAAGGCTTGGTTATTCTTGGATGTCATCT	4560
QY	4561	CACCAAGAGTTTCACAGAGTFAAAGAACAAAATGTATACCGCAGGTTTTTTCAGACAAGGTG	4620
Db	4561	CACCAAGAGTTTCACAGAGTFAAAGAACAAAATGTATACCGCAGGTTTTTTCAGACAAGGTG	4620
QY	4621	GAAAGTGTCCAAAGAAATTCACAGGTTCAGATCATACCATCAACGCGCTCATGAATTTACCAG	4680
Db	4621	GAAAGTGTCCAAAGAAATTCACAGGTTCAGATCATACCATCAACGCGCTCATGAATTTACCAG	4680
QY	4681	GAAATGGGATTTGCGGTTCTCAAGCGCGTCCAAAGAACACACGAGGACGATACCCAAACATA	4740
Db	4681	GAAATGGGATTTGCGGTTCTCAAGCGCGTCCAAAGAACACACGAGGACGATACCCAAACATA	4740
QY	4741	ATCAACAAGATGAGATGAATAAGCATCCATTTTACAAAAACATTTTTTGGATCTGCTCA	4800
Db	4741	ATCAACAAGATGAGATGAATAAGCATCCATTTTACAAAAACATTTTTTGGATCTGCTCA	4800
QY	4801	ACTCCTCTGAAGAAATGCCCTTACAAGACAGTCAGTACCAACAGAACATCACGGATGGCT	4860
Db	4801	ACTCCTCTGAAGAAATGCCCTTACAAGACAGTCAGTACCAACAGAACATCACGGATGGCT	4860
QY	4861	GTCACCGAGATAGAACTGCTGAAGAGCTGGTTGATCCGCTCAGTAAACAATTTCAAGCT	4920
Db	4861	GTCACCGAGATAGAACTGCTGAAGAGCTGGTTGATCCGCTCAGTAAACAATTTCAAGCT	4920
QY	4921	TACAGAACATATTGCTCGAATCAAAATTCAGCAATTAAGAGCAGCGGAGTTGAATACA	4980
Db	4921	TACAGAACATATTGCTCGAATCAAAATTCAGCAATTAAGAGCAGCGGAGTTGAATACA	4980
QY	4981	AGGAGACAAATCCCACTATTTTACGAGAGATGAAGGGACGCTTCTGATGGGAAAAAGC	5040
Db	4981	AGGAGACAAATCCCACTATTTTACGAGAGATGAAGGGACGCTTCTGATGGGAAAAAGC	5040
QY	5041	CTACAGCCAGTGGATAGTCTCAGAAAGATGTGGAGGGGAATCAAGGGACACAGGAAC	5100
Db	5041	CTACAGCCAGTGGATAGTCTCAGAAAGATGTGGAGGGGAATCAAGGGACACAGGAAC	5100
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Db	5101	GAACAAAAACAATATGGATTCCATAGACTATGAAGCAATAAGACGTGTAGTATCAGCG	5160
QY	5161	AGATTCTGAGGCTATCAAGGAAAGAGGGATGAATTAACATGTTGGCCGTACGAAATTAAG	5220
Db	5161	AGATTCTGAGGCTATCAAGGAAAGAGGGATGAATTAACATGTTGGCCGTACGAAATTAAG	5220
QY	5221	ATTTCTAGAACCGATAGTTAAAGATCATGGTGGTATCGACCTTGAATGGTTGAGAGAT	5280
Db	5221	ATTTCTAGAACCGATAGTTAAAGATCATGGTGGTATCGACCTTGAATGGTTGAGAGAT	5280
QY	5281	CTCCTCTGATAAAGCCAAAGACTATCTCTTGAGCATTAAGAGTCTGGGTTTGAAGAGTG	5340
Db	5281	CTCCTCTGATAAAGCCAAAGACTATCTCTTGAGCATTAAGAGTCTGGGTTTGAAGAGTG	5340
QY	5341	TTGAATGCGTGGACTTTTAAACACTCCAACTCTTTCCTTTCCCTGTGACAGAAATGTTG	5400
Db	5341	TTGAATGCGTGGACTTTTAAACACTCCAACTCTTTCCTTTCCCTGTGACAGAAATGTTG	5400
QY	5401	GAAAGATAGCAGTTAGGATGGATGGTGCCTCTACACCCCTTACGATCACTTCAGT	5460
Db	5401	GAAAGATAGCAGTTAGGATGGATGGTGCCTCTACACCCCTTACGATCACTTCAGT	5460

QY	5461	TACACCTCTCGAGCTATACCCAGTGTCCAGTCCATCCAAAAATTTCTTTGGCCAAAGAC	5520
Db	5461	TACACCTCTCGAGCTATACCCAGTGTCCAGTCCATCCAAAAATTTCTTTGGCCAAAGAC	5520
QY	5521	TTTGCAAACTCGATCAACGAAACACTGTATGAATTAACAACAACCTGATTCAGTTTGGAA	5580
Db	5521	TTTGCAAACTCGATCAACGAAACACTGTATGAATTAACAACAACCTGATTCAGTTTGGAA	5580
QY	5581	AGGTATTTTGCACAAGAGTAGACCAAAATTTGAATGATGTCCATGTAGAGAGAGTGC	5640
Db	5581	AGGTATTTTGCACAAGAGTAGACCAAAATTTGAATGATGTCCATGTAGAGAGAGTGC	5640
QY	5641	GACACTTTGCCAGTCTTTATGCTAGTCAAGACTTGTCTTTTACCGGCACACAGAGGAGGA	5700
Db	5641	GACACTTTGCCAGTCTTTATGCTAGTCAAGACTTGTCTTTTACCGGCACACAGAGGAGGA	5700
QY	5701	GCTTAAACAAGTGCAACTATTCGGTCCCTCCGAGTCCCTTCTCTGTAGCATCCCGA	5760
Db	5701	GCTTAAACAAGTGCAACTATTCGGTCCCTCCGAGTCCCTTCTCTGTAGCATCCCGA	5760
QY	5761	TGATAGAACTACCTCTTCGGTTCGAGAAATCCCTAGCAAGTGGAGCACCATCGAATAGAG	5820
Db	5761	TGATAGAACTACCTCTTCGGTTCGAGAAATCCCTAGCAAGTGGAGCACCATCGAATAGAG	5820
QY	5821	AAAACTGTGAACCAATAATTTGAAGAGCGGCTCCGCCGGGCAAGAGTGCACTGAAATAA	5880
Db	5821	AAAACTGTGAACCAATAATTTGAAGAGCGGCTCCGCCGGGCAAGAGTGCACTGAAATAA	5880
QY	5881	CCGAGAGTGATTTGAAGATGCTTACTACAATGAGGACCTTGACGAGATCCCAACAATAA	5940
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QY	5941	AACTCAACATTTGAACAGTTTGGMATGACTCTACGGGAACACATGGAAGAAACATGGAGC	6000
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Db	6061	CAACTCCCAAACTAAAGAACATTTAGCCGTCTCAGACACAGGACCAAGTGTACGAGTCC	6120
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Db	6121	CAGATTTCATCTGCTCTCTTGATGTATGATTAAGAGAACACAGATGATCAAGTCTCTT	6180
QY	6181	ATCTCTTAGCTATATGAGACACCGAGTGAACAGCGAAATTCGSCACAAACCGCTGAAACAG	6240
Db	6181	ATCTCTTAGCTATATGAGACACCGAGTGAACAGCGAAATTCGSCACAAACCGCTGAAACAG	6240
QY	6241	AGTGTGAGGGAAGCGCTCTGGCAAAATGTGCTTTGACGAGACTTGTCTGAGTGTAAACA	6300
Db	6241	AGTGTGAGGGAAGCGCTCTGGCAAAATGTGCTTTGACGAGACTTGTCTGAGTGTAAACA	6300
QY	6301	GTCGAGGGAAGCAAACTCAGACAGTTTCGAGGAACCTTCTGATACCTTGTCCGACTG	6360
Db	6301	GTCGAGGGAAGCAAACTCAGACAGTTTCGAGGAACCTTCTGATACCTTGTCCGACTG	6360
QY	6361	CCATGAGAGGAAGTTTTCCGCTCAACGGGACATATTTCCAAAGTCAACGAGTTATTTCAG	6420
Db	6361	CCATGAGAGGAAGTTTTCCGCTCAACGGGACATATTTCCAAAGTCAACGAGTTATTTCAG	6420
QY	6421	ACCAGAGTCCAGTCTCAAAACCATCGATGTTCTTAGAGATTTGGATCTCCCAAA	6480
Db	6421	ACCAGAGTCCAGTCTCAAAACCATCGATGTTCTTAGAGATTTGGATCTCCCAAA	6480
QY	6481	GAAAGACTGTTTACTTTCGGAACATCAGTAAACATCAATATTTCAGAGGTCTTTCAAACGAGC	6540
Db	6481	GAAAGACTGTTTACTTTCGGAACATCAGTAAACATCAATATTTCAGAGGTCTTTCAAACGAGC	6540
QY	6541	AGATACAGTCTGCTTTTGGAAAGGATTCGTATGTGTCGTTGGATTCGGAACAGAGACAA	6600

QY 1381 CGCCAGTCTGTTTCAGAAACAGGTGAAAGACCTGGATTTCCTTGAAACAGATAGTTTCAAACTA 1440
DB 2829 CGCCAGTCTGTTTCAGAAACAGGTGAAAGACCTGGATTTCCTTGAAACAGATAGTTTCAAACTA 2888
QY 1441 CTGGACATGAATCCAGAGCCGAAATCTGACAAAGTATGACAGCAATATGGACTCGT 1500
DB 2889 CTGGACATGAATCCAGAGCCGAAATCTGACAAAGTATGACAGCAATATGGACTCGT 2948
QY 1501 CTGCTGTTAATCGGACGAGTACTGACAAATATGATGGACGACAGAGATGTTCTGG 1560
DB 2949 CTGCTGTTAATCGGACGAGTACTGACAAATATGATGGACGACAGAGATGTTCTGG 3008
QY 1561 AGTTCCAGCTTAAACAAATCTCTCAGCAGAAACCTCCAAAAGGAAAGAGTTTCATGC 1620
DB 3009 AGTTCCAGCTTAAACAAATCTCTCAGCAGAAACCTCCAAAAGGAAAGAGTTTCATGC 3068
QY 1621 CCAAGGTGTCGTGGAAGCAACCTTAAAGAAAGCCAGCAAACTCTGAGAACTTCCCA 1680
DB 3069 CCAAGGTGTCGTGGAAGCAACCTTAAAGAAAGCCAGCAAACTCTGAGAACTTCCCA 3128
QY 1681 AAGTGGTCGTGGAAGCAACCTTAAAGAAAGCCAGCAAACTCTGAGAACTTCCCA 1740
DB 3129 AAGTGGTCGTGGAAGCAACCTTAAAGAAAGCCAGCAAACTCTGAGAACTTCCCA 3188
QY 1741 TGAATCTTAAAGAAACCGGAGTGCACAAAGAAAGAAATTTGAAAGAACTCAGCAACTTAAAA 1800
DB 3189 TGAATCTTAAAGAAACCGGAGTGCACAAAGAAAGAAATTTGAAAGAACTCAGCAACTTAAAA 3248
QY 1801 AGCCAGCCAAATTTGGAGATATGAGCAACAAAGCCCTGAACTCAGCTCAAAAGTTGCA 1860
DB 3249 AGCCAGCCAAATTTGGAGATATGAGCAACAAAGCCCTGAACTCAGCTCAAAAGTTGCA 3308
QY 1861 GAAAAGCTTTGAAATTTTGAATTTGAGATTCCTGGAGATTCCTGGAGATTCCTGGAGT 1920
DB 3309 GAAAAGCTTTGAAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTT 3368
QY 1921 CTGAAATTTGTCAGAACAGTACGTGGCGAAACTCTGTTTCTGAGATCAGAGATGCCATTG 1980
DB 3369 CTGAAATTTGTCAGAACAGTACGTGGCGAAACTCTGTTTCTGAGATCAGAGATGCCATTG 3428
QY 1981 GTGGAACTAATGGTATGTTTCTGGATTCAGTGTCAAAATAGACAAAGCCAAATGATTTGG 2040
DB 3429 GTGGAACTAATGGTATGTTTCTGGATTCAGTGTCAAAATAGACAAAGCCAAATGATTTGG 3488
QY 2041 GGGCTATGAACAGCCACTTTGAAGTGTCAATGGGAAAACAGCCAGATATAACTATCTACAG 2100
DB 3489 GGGCTATGAACAGCCACTTTGAAGTGTCAATGGGAAAACAGCCAGATATAACTATCTACAG 3548
QY 2101 GAGCGAAACTGGCCAGAGACCAACCACTGATTTATTTGACTAGAAACCAAGCAATGCCAGT 2160
DB 3549 GAGCGAAACTGGCCAGAGACCAACCACTGATTTATTTGACTAGAAACCAAGCAATGCCAGT 3608
QY 2161 TCCAGTGGCAACCCAGAACACCCAGTTCCTCAATGGAAACCAACAGCTTGGCTTTCAGA 2220
DB 3609 TCCAGTGGCAACCCAGAACACCCAGTTCCTCAATGGAAACCAACAGCTTGGCTTTCAGA 3668
QY 2221 TGAAGAAACCAACTTATTTGGCTTTCCATTTGGTTAAACAGCAACCTCGCATGACCAATAAGAA 2280
DB 3669 TGAAGAAACCAACTTATTTGGCTTTCCATTTGGTTAAACAGCAACCTCGCATGACCAATAAGAA 3728
QY 2281 ACCAGAGCTTGTGGCCATGGGTAACTCAACCACTTATGATCTGTAGGAACTCCAC 2340
DB 3729 ACCAGAGCTTGTGGCCATGGGTAACTCAACCACTTATGATCTGTAGGAACTCCAC 3788
QY 2341 GGCCTGCAATTAGTAAAGTGAAGCCAGCAACTAGGAGTCCCAAGGAAACAAAGCGGCCTTA 2400
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QY 2401 TATTTTGAATCAACAGACTTGTATCTGCTGGAAATCAGCTATATGATCAGCTACAG 2460
DB 3849 TATTTTGAATCAACAGACTTGTATCTGCTGGAAATCAGCTATATGATCAGCTACAG 3908

QY 2461 ACATGCATCAACTTGTATGTCAACCGGAGGCAACAAACATGAGTACTGTATATAAAACC 2520
DB 3909 ACATGCATCAACTTGTATGTCAACCGGAGGCAACAAACATGAGTACTGTATATAAAACC 3968
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DB 3969 AGCAACCTGGATCAATTAAGAGGCCAGCAGCTTGGTACCTTTGATTGATGCCAGCAAC 4028
QY 2581 CTGCAACTCCAAAAGGTTTACTCACTTGAATCAGATGTAGTACCAAGCATGTCTATCGC 2640
DB 4029 CTGCAACTCCAAAAGGTTTACTCACTTGAATCAGATGTAGTACCAAGCATGTCTATCGC 4088
QY 2641 CTGGCTTTCCAGCTCATTTCTCAGTCACAAAGTTCTTACAAACATATCTACATGTGGAACTG 2700
DB 4089 CTGGCTTTCCAGCTCATTTCTCAGTCACAAAGTTCTTACAAACATATCTACATGTGGAACTG 4148
QY 2701 TTTCCAGATTTTGAATGGGACTACAGGTACATGTCAGAGAGCAGGGCTCTGTCATAGC 2760
DB 4149 TTTCCAGATTTTGAATGGGACTACAGGTACATGTCAGAGAGCAGGGCTCTGTCATAGC 4208
QY 2761 ATTCTTTACAGCAAGATATCCATCAAGGAAATTAAGTACATCTTCTCATGAGATATCCA 2820
DB 4209 ATTCTTTACAGCAAGATATCCATCAAGGAAATTAAGTACATCTTCTCATGAGATATCCA 4268
QY 2821 ATGTTAATGGGTGCAAGAAAGCGTTTACCTCAAACTCTTCTGCAACTCCAAATATAG 2880
DB 4269 ATGTTAATGGGTGCAAGAAAGCGTTTACCTCAAACTCTTCTGCAACTCCAAATATAG 4328
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QY 2941 AAAAGCATGATCTAAACTTTAGTCTCAACAGATTTGCTCAATCAAGATGTGGAGACATA 3000
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QY 3001 ACAGCAGACCGTGTGGAATATTTAGATGCTGCAAGAAACGAAAAATCCAGAAAGTAG 3060
DB 4449 ACAGCAGACCGTGTGGAATATTTAGATGCTGCAAGAAACGAAAAATCCAGAAAGTAG 4508
QY 3061 TCCAAAGAAATTTGATGGCATGCCACCTGAGGTTATAGAAATCGAGGATGATCCAACTG 3120
DB 4509 TCCAAAGAAATTTGATGGCATGCCACCTGAGGTTATAGAAATCGAGGATGATCCAACTG 4568
QY 3121 ATGGGCAAGAAAGGTAAATTAATCTGTCAGCATCAAGTAAAGTGCATCTAAAGGAAACT 3180
DB 4569 ATGGGCAAGAAAGGTAAATTAATCTGTCAGCATCAAGTAAAGTGCATCTAAAGGAAACT 4628
QY 3181 CGTCTCCAGTTAAAGAGACAGCAAGAAAGGAAATGTATTTGTCCTCAAAACCGCTGCAA 3240
DB 4629 CGTCTCCAGTTAAAGAGACAGCAAGAAAGGAAATGTATTTGTCCTCAAAACCGCTGCAA 4688
QY 3241 AAAAGGTCGAGCAGGTAGAAAAAATCAGTACCTCCGCTGCTCATGCTCAGAGATCC 3300
DB 4689 AAAAGGTCGAGCAGGTAGAAAAAATCAGTACCTCCGCTGCTCATGCTCAGAGATCC 4748
QY 3301 AGCTTTGGCAACCTTACTCTCCAAAGACACCTTTATCAAGAGCAAGCTTAAGGAAAG 3360
DB 4749 AGCTTTGGCAACCTTACTCTCCAAAGACACCTTTATCAAGAGCAAGCTTAAGGAAAG 4808
QY 3361 GGAGAAAGTCCATACAGATTCAGGAAAGCAAG----- 3394
DB 4809 GGAGAAAGTCCATACAGATTCAGGAAAGCAAGGAGGTAACTAATGTATTTCTCAATCTC 4868
QY 3395 ----- 3394
DB 4869 TGTGATATAATTTTGAATTTTAGTAACTGATGTGTCCAAACCAAGCTCCTTATCACTGTT 4928
QY 3395 -----AGCTCCATCAGGAGAACTTCTGCTCAGGATTTCTATTGCGGAAATAAT 3442
DB 4929 GGTGCGTTGTATAGTCCATCAGGAACTTCTGCTCAGGATTTCTATTGCGGAAATAAT 4988
QY 3443 TTACAGGATGCAAAATCTGTATCTAGGAGACAAAGAAAGAGAAACAGCAAAATGCAAT 3502


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; Sequence 1, Application US/09840743
; Publication No. US20030135890A1
; GENERAL INFORMATION:
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
; APPLICANT: Hannon, Mike
; APPLICANT: Okamura, Jack Kishiro
; APPLICANT: Tatarinova, Tatiana Valerievna
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids That Control Plant Development
; FILE REFERENCE: 023070-099910US
; CURRENT APPLICATION NUMBER: US/09/840,743
; CURRENT FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 09/553,690
; PRIOR FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 1
; LENGTH: 12785
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: DEMETER (DMT) genomic sequence
US-09-840-743-1

Query Match          69.7%; Score 4788.6; DB 10; Length 12785;
Best Local Similarity 92.6%; Pred. No. 0;
Matches 5228; Conservative 0; Mismatches 14; Indels 401; Gaps 3;

QY 1 GTTCTCCGGCATGACTCGCCCTGAGAAATCAGAAAAGCTTAGATCGGTGAGCTTTTAGCTCC 60
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QY 61 ATTTTCTGTTTATACATATATATATATATATATATATATATATATATATATATATATAT 120
DB 3485 ATTTTCTGTTTATACATATATATATATATATATATATATATATATATATATATATATAT 3544

QY 121 TGTTCTGCTAAATTTTCAGAGCTGTTTACATATTTTCCGATCAGAGAGAGATCACTGGGTTTT 180
DB 3545 TGTTCTGCTAAATTTTCAGAGCTGTTTACATATTTTCCGATCAGAGAGAGATCACTGGGTTTT 3604

QY 181 TATGTTAATCAATACATGTTCTGTTTCTGATCATATAAATCTCAGCTATTAACACTGAT 240
DB 3605 TATGTTAATCAATACATGTTCTGTTTCTGATCATATAAATCTCAGCTATTAACACTGAT 3664

QY 241 TTTGATTTCTGGTAATAAAGCTCTGATTTGCTTTTATCTTCACTTTCCCATAAACAT 300
DB 3665 TTTGATTTCTGGTAATAAAGCTCTGATTTGCTTTTATCTTCACTTTCCCATAAACAT 3724

QY 301 TGCTTACTTTTATTCGCTCTCTTTTACCGTTTCCAGCTTAAATAATCTTTCGCTATTCAAT 360
DB 3725 TGCTTACTTTTATTCGCTCTCTTTTACCGTTTCCAGCTTAAATAATCTTTCGCTATTCAAT 3784

QY 361 GTGTTTCTCGTTTGTGATGAGAAAATAATCTGACAAAATAATCAATTTATTGCAATTTTAT 420
DB 3785 GTGTTTCTCGTTTGTGATGAGAAAATAATCTGACAAAATAATCAATTTATTGCAATTTTAT 3844

QY 421 GGTGCAGATTTCTTAGTTAATGTGCGCTTCTTAAACCAAGTCAGATTAAGAGAGTGTTTC 480
DB 3845 GGTGCAGATTTCTTAGTTAATGTGCGCTTCTTAAACCAAGTCAGATTAAGAGAGTGTTTC 3904

QY 481 GTCCATGTTGCTTGTGTTTGTGTTTGGAGAGAGTTTTCGAGAGTTAGGTGAGTGTAT 540
DB 3905 GTCCATGTTGCTTGTGTTTGTGTTTGGAGAGAGTTTTCGAGAGTTAGGTGAGTGTAT 3964

QY 541 TTGGGGTGAAGTGAATAAGTTTGAAGGGGGAGTGATTCATCAAGTGTGTTATGAAT 600
DB 3965 TTGGGGTGAAGTGAATAAGTTTGAAGGGGGAGTGATTCATCAAGTGTGTTATGAAT 4024

QY 601 CGAGGGCTGATCCGGGGGATAGATATTTTCGAGTTTCCCTTTGGAGATCAAACTCAACAAG 660
DB 4025 CGAGGGCTGATCCGGGGGATAGATATTTTCGAGTTTCCCTTTGGAGATCAAACTCAACAAG 4084
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QY 661 AGTTCATGGGTTCTTTGGATTCCATTTTACACCAAAAAACCTAGATCAAGTCTGATGGTAG 720
DB 4085 AGTTCATGGGTTCTTTGGATTCCATTTTACACCAAAAAACCTAGATCAAGTCTGATGGTAG 4144

QY 721 ATGAGAGAGTGTATAAACCCAGGATCTAAATGGGTTTCCAGGTGGTGAAATTTGTAGACAGG 780
DB 4145 ATGAGAGAGTGTATAAACCCAGGATCTAAATGGGTTTCCAGGTGGTGAAATTTGTAGACAGG 4204

QY 781 GATTCTGCAACACACTGGTGTGATCATATATGGGTTTTTTGATCATGGTGTCTCATCAGGGCG 840
DB 4205 GATTCTGCAACACACTGGTGTGATCATATATGGGTTTTTTGATCATGGTGTCTCATCAGGGCG 4264

QY 841 TTACCAACTTAAGTATGATGATCAATAGCTTTAGCGGGATCATATGCAACAAGCTTCGAGTA 900
DB 4265 TTACCAACTTAAGTATGATGATCAATAGCTTTAGCGGGATCATATGCAACAAGCTTCGAGTA 4324

QY 901 ATAGTGAGAGAGATCTTTTGGCAGGAGTGAAGTGACTTCTCTTTAGCACCAAGTTATCA 960
DB 4325 ATAGTGAGAGAGATCTTTTGGCAGGAGTGAAGTGACTTCTCTTTAGCACCAAGTTATCA 4384

QY 961 GAAACACCAACCGGTAATGCTAGAGCCGGTCAATGGAAATTTTACTTTCAGATGTGGGTATGG 1020
DB 4385 GAAACACCAACCGGTAATGCTAGAGCCGGTCAATGGAAATTTTACTTTCAGATGTGGGTATGG 4444

QY 1021 TAAATGGTCTCTTTCACCCAGAGTGGCACTTCTCAAGCTGGCTATATAATGAGTTTGAATTTGG 1080
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QY 1081 ATGACTTGTGAAATCTGATCAGATGCCCTTCTCTTCAAGCTTGTCTGATGTGGGTGGG 1140
DB 4505 ATGACTTGTGAAATCTGATCAGATGCCCTTCTCTTCAAGCTTGTCTGATGTGGGTGGG 4564

QY 1141 ATAGCTTATTTCAAGGTTTCGTCATATGTGATGATCAATCTATTTTTCAGTTTTTTTTTTTC 1200
DB 4565 ATAGCTTATTTCAAGGTTTCGTCATATGTGATGATCAATCTATTTTTCAGTTTTTTTTTTTC 4624

QY 1201 CCTTTCTTTCCGTTCTTGAGTACTTGTAGATGAGAACATGAATTTAGAAATATCTTTAAGAAAGT 1260
DB 4625 CCTTTCTTTCCGTTCTTGAGTACTTGTAGATGAGAACATGAATTTAGAAATATCTTTAAGAAAGT 4684

QY 1261 CATGGTTTTGAAACAGATGGACCTCCAGCGTGTAAACAAGCTCTTTTACAAATTTGAATTTTAC 1320
DB 4685 CATGGTTTTGAAACAGATGGACCTCCAGCGTGTAAACAAGCTCTTTTACAAATTTGAATTTTAC 4744

QY 1321 CAATTTAGAAAGAGAGACAGTGTGGGTGAGTCTGTGAAAGTTTCGTTTCAATATGTACCGTCAA 1380
DB 4745 CAATTTAGAAAGAGAGACAGTGTGGGTGAGTCTGTGAAAGTTTCGTTTCAATATGTACCGTCAA 4804

QY 1381 CGCCAGTCTGTTCAGAAACAGGTGAAAGAGCTGGGATTCCTTTGAAACAGATAGTTTCAACTA 1440
DB 4805 CGCCAGTCTGTTCAGAAACAGGTGAAAGAGCTGGGATTCCTTTGAAACAGATAGTTTCAACTA 4864

QY 1441 CTGGACATGAAATCCAGAGCGGAAATCTGACAAAGTATGACAGAGCATTTATGGACTCGT 1500
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QY 1501 CTGCTGTTTAAATCGGACGGAAGCTACTGAAACAAAATGATGGCAGCAGACAGAGATGTTCTGG 1560
DB 4925 CTGCTGTTTAAATCGGACGGAAGCTACTGAAACAAAATGATGGCAGCAGACAGAGATGTTCTGG 4984

QY 1561 AGTTTCGACCTTAAACAAAATCTCTCAGCAGAAACCCCTCCAAAAGGAAAGGAAAGTTTCATGC 1620
DB 4985 AGTTTCGACCTTAAACAAAATCTCTCAGCAGAAACCCCTCCAAAAGGAAAGGAAAGTTTCATGC 5044

QY 1621 CCAAGGTGCTGTGGAAGCGCAAACTTAAAGAAAGCCAGCAAACTCTCAGAACCTTCCCA 1680
DB 5045 CCAAGGTGCTGTGGAAGCGCAAACTTAAAGAAAGCCAGCAAACTCTCAGAACCTTCCCA 5104

QY 1681 AAGTGGTCTGTGGAAGCGCAAACTTAAAGAAAGCCAGCAAACTCTCAGAACCTTCCCA 1740
DB 5105 AAGTGGTCTGTGGAAGCGCAAACTTAAAGAAAGCCAGCAAACTCTCAGAACCTTCCCA 5164

QY 1741 TGAATCTTAAAGAAACCGGGAGTGCCTTAAAGAAAGGAAAGTTTGAAGAAATCTCAGCAACTA 1800
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QY 3740 ----- 3739
Db 7385 ATAATGCATCTTGTGAAGAACAGGTGTGCAATTTATGGTGACAGCTGAATGGTTTATGTGC 7444
QY 3740 ----- -AGGAGATAGA 3749
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QY 3750 CGTTTTTCCGCATGAAGGATCGGTGGTTGATTCGGTCAATTGGAGTTTTCCTTACACAG 3809
Db 7505 CGTTTTTCCGCATGAAGGATCGGTGGTTGATTCGGTCAATTGGAGTTTTCCTTACACAG 7564
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Db 7565 AATGTCCTGGATCACCTTTCAAGGTATATGAGTTAGTTCCTTAAATTTAGTTTCCAAACA 7624
QY 3831 ----- -AGCTCTGCTTCATGCTCTAGCTGCTCG 3859
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QY 3860 ATTCCCTCCAAATTTAAGCAGCAGCGGAGAGATGAAGGAAATGTTAGAGCGTAGTTGT 3919
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QY 3920 TGAAGATCCAGAGGATGCAATTCGAACCTTAAATGAAATTCCTTCGTGGCAGGAAAAAGT 3979
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QY 3980 TCAACATCCATCTGACATGGAAATTTCTGGGTTGATAGTGGATCAAAAGAGCAGCTAAG 4039
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QY 4040 GGACTGTTCAAACCTCTGAAATTTGAAGATTTAAATTTCTTAGAAGAGATTAATCAAATTT 4099
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QY 4100 AGAAGAGAGATTTATCATCAACAGATTTCTTTTCATCGCGGATATTTTCAGTCTGTGG 4159
Db 7925 AGAAGAGAGATTTATCATCAACAGATTTCTTTTCATCGCGGATATTTTCAGTCTGTGG 7984
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QY 4220 AACAAAACTGTCAGTGGAACTCAATCACTAGTGCAAACTGGAGCCCAAACTTGTCTGA 4279
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QY 4280 TGAATTTTGTCTTCAAGGGAATGAGAGCCGATCTATATGAAGGATCTGGTGATGTTCA 4339
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QY 4340 GAAACAAGAACTACAAATGTCGCTCAGAAGAACTGATCTTTGAAAAACAATGAATTG 4399
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QY 4400 GAAAGACTGTCGTTTGGTTCAGCAAGAAATGATTAATTTGGCAAACTCCTTC 4459
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QY 4460 CAGCAGCTATGAGCAGTGGCGACTCGACGACCATGCTAGCATATAGAGATTTTGG 4519
Db 8285 CAGCAGCTATGAGCAGTGGCGACTCGACGACCATGCTAGCATATAGAGATTTTGG 8344
QY 4520 AATGAAGGTGAAGGCTTGGTTTATTTCTGGATGCCATCTCACCAAGAGTTTGACAGAT 4579
Db 8345 AATGCAAGGTGAAGGCTTGGTTTATTTCTGGATGCCATCTCACCAAGAGTTTGACAGAT 8404
QY 4580 AAAGAACAAAAATGTACACGAGGTTTTCAGACAGGTGGAAGTGTTCAGAGAAATT 4639
Db 8405 AAAGAACAAAAATGTACACGAGGTTTTCAGACAGGTGGAAGTGTTCAGAGAAATT 8464

QY 4640 CACAGGTGAGATCATACCATCAACGCTTCATGAATTTACAGGAATGGGATTTCTCGGTTTC 4699
Db 8465 CACAGGTGAGATCATACCATCAACGCTTCATGAATTTACAGGAATGGGATTTCTCGGTTTC 8524
QY 4700 CTCAAGCGCGTCCCAAGAACACACAGGAGATACCCAAACATATCAATCAAGATGAGATGAA 4759
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QY 4760 TAAAGCATCCCATTTTACAAAAACATTTTGGATCTGCTCACTCTCTGAGAGATGCCT 4819
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QY 4880 TGCTGAAGACGTGGTTGATTCGGCTCAGTAAACATTTCAAGCTTTACAGACATATTTGGTGA 4939
Db 8705 TGCTGAAGACGTGGTTGATTCGGCTCAGTAAACATTTCAAGCTTTACAGACATATTTGGTGA 8764
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QY 5000 TTTTACGAGAGATGAAGAGGACGCTTTGCTGATGGGAAAAAGCCTACAAGCAGTGGGATAG 5059
Db 8825 TTTTACGAGAGATGAAGAGGACGCTTTGCTGATGGGAAAAAGCCTACAAGCAGTGGGATAG 8884
QY 5060 TCTCAGAAAGATGTGGAGGGGAATGAAGGGAGACAGGAAACGAAACAAAAACAATATGA 5119
Db 8885 TCTCAGAAAGATGTGGAGGGGAATGAAGGGAGACAGGAAACGAAACAAAAACAATATGA 8944
QY 5120 TTCCATAGACTATGAAGCAATAAGACGCTGTAGTATCAGCAGATTTCTTGAGGCTATCAA 5179
Db 8945 TTCCATAGACTATGAAGCAATAAGACGCTGTAGTATCAGCAGATTTCTTGAGGCTATCAA 9004
QY 5180 GGAAGAGGGATGAATAACATGTTGGCGCTACGAATTAAGGATTTCTCTAGAACGGATGT 5239
Db 9005 GGAAGAGGGATGAATAACATGTTGGCGCTACGAATTAAGGATTTCTCTAGAACGGATGT 5239
QY 5240 TAA 5242
Db 9065 TGA 9067

RESULT 4

US-09-840-743-6
; Sequence 6, Application US/09840743
; Publication No. US20030135890A1
; GENERAL INFORMATION:
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
; APPLICANT: Hannon, Mike
; APPLICANT: Okamuro, Jack Kishiro
; APPLICANT: Tatarinova, Tatiana Valerievna
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids That Control Plant Development
; FILE REFERENCE: 023070-099910US
; CURRENT APPLICATION NUMBER: US/09/840,743
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 09/553,690
; PRIOR FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1478
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: DMT 5' untranslated region
US-09-840-743-6

Query Match 21.5%; Score 1478; DB 10; Length 1478;

	Best Local Similarity	100.0%; Pred. No. 0;	Matches 1478; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy	61	ATTTTTCTGTTTATTACATAATATTCCTTTTTTTTTCTCTCCCTTTTTTATCTGGAATT	120
Db	61	ATTTTTCTGTTTATTACATAATATTCCTTTTTTTTTCTCTCCCTTTTTTATCTGGAATT	120
Qy	121	TGTTCTGCTAAATTTCCAGCTGTACATTTTCCGATCACGAGAAGAATCACATCGGGTTTT	180
Db	121	TGTTCTGCTAAATTTCCAGCTGTACATTTTCCGATCACGAGAAGAATCACATCGGGTTTT	180
Qy	181	TATGTTAATCAATACATGTTCTCTGTTTTCTGATCATAAATCTCAGCTATTAAACAACCTGAT	240
Db	181	TATGTTAATCAATACATGTTCTCTGTTTTCTGATCATAAATCTCAGCTATTAAACAACCTGAT	240
Qy	241	TTTGATTTCTGGTAATAAAAAACCTCTGATTTGCTTTTTATCTCACTTTCCCATAAACAAT	300
Db	241	TTTGATTTCTGGTAATAAAAAACCTCTGATTTGCTTTTTATCTCACTTTCCCATAAACAAT	300
Qy	301	TGCTTACTTATTCGCCTCTCTTTTACCGTTTCCAGCTTAAAAATCTTCGCTATTCAAT	360
Db	301	TGCTTACTTATTCGCCTCTCTTTTACCGTTTCCAGCTTAAAAATCTTCGCTATTCAAT	360
Qy	361	GTGTTTCTCGTTTTGTTGATGAGAAAAATATCTGACAAAAAATCATTTATTGCAATTTTAT	420
Db	361	GTGTTTCTCGTTTTGTTGATGAGAAAAATATCTGACAAAAAATCATTTATTGCAATTTTAT	420
Qy	421	GGTGCAGATCTTTAGTTAAATGTCCTTCTCTAACCAAGTCAGATTAAAAAGGAGTGTTC	480
Db	421	GGTGCAGATCTTTAGTTAAATGTCCTTCTCTAACCAAGTCAGATTAAAAAGGAGTGTTC	480
Qy	481	GTCCATGTTGCTTTGTTTTGTTGTTTGGAGAGAGTTTTCCGAGAGTTAGTGAGTGTTAT	540
Db	481	GTCCATGTTGCTTTGTTTTGTTGTTTGGAGAGAGTTTTCCGAGAGTTAGTGAGTGTTAT	540
Qy	541	TTGGGGTGAGTAGTAGTAAGTTTGAAGGGGGAGTGATTCATCAAGTGTGTTTATGAATT	600
Db	541	TTGGGGTGAGTAGTAGTAAGTTTGAAGGGGGAGTGATTCATCAAGTGTGTTTATGAATT	600
Qy	601	CGAGGGCTGATCCGGGGGATAGATATTTTCBAGTTCCTTTGGAGAAATCAAACCTCAACAAG	660
Db	601	CGAGGGCTGATCCGGGGGATAGATATTTTCBAGTTCCTTTGGAGAAATCAAACCTCAACAAG	660
Qy	661	AGTTTCATGGGTTCTTTGATTTCCATTTACGCCAAAAACCCTAGATCAAGTCTGATGTAG	720
Db	661	AGTTTCATGGGTTCTTTGATTTCCATTTACGCCAAAAACCCTAGATCAAGTCTGATGTAG	720
Qy	721	ATGAGAGAGTGATAAACCCAGGATCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGGG	780
Db	721	ATGAGAGAGTGATAAACCCAGGATCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGGG	780
Qy	781	GATTTCTGCAACACTGGTGTGGATCATTAATGGGGTTTTTTTGATCATGTGCTCATCAGGGCG	840
Db	781	GATTTCTGCAACACTGGTGTGGATCATTAATGGGGTTTTTTTGATCATGTGCTCATCAGGGCG	840
Qy	841	TTACCAACTTAAGTATGATGATCAATAGCTTTAGCGGGATCACATGCAACAAGCTTGGAGTA	900
Db	841	TTACCAACTTAAGTATGATGATCAATAGCTTTAGCGGGATCACATGCAACAAGCTTGGAGTA	900
Qy	901	ATAGTGAGAGAGATCTTTTGGCAGGAGTCAGGTGACTTCTCTTTTAGCACCAGGTTATCA	960
Db	901	ATAGTGAGAGAGATCTTTTGGCAGGAGTCAGGTGACTTCTCTTTTAGCACCAGGTTATCA	960
Qy	961	GAACAACACCGGTAATGTAGAGCCGGCTCAATGGAAATTTTACTTCAGATGTGGGTATGG	1020
Db	961	GAACAACACCGGTAATGTAGAGCCGGCTCAATGGAAATTTTACTTCAGATGTGGGTATGG	1020
Qy	1021	TAAATGTCCTTTTCCACCAGAGTGGCACTTCTCAAGCTGGCTATATATGAGTTTGAATPG	1080

Db	1021	TAAATGGTCTCTTCA	CCGAGAGTGGCACTTCTCAAGCTGGCTATATAGATTGGAATTGG	1080
Qy	1081	ATGACTTTGTTGAATCCTGATCAGATGCCCTTCTCCTTTCA	CAAGCTTCTGCTGAGTGGTGGG	1140
Db	1081	ATGACTTTGTTGAATCCTGATCAGATGCCCTTCTCCTTTCA	CAAGCTTCTGCTGAGTGGTGGG	1140
Qy	1141	ATAGCTTATTCAAGGTTTCGTC	CAATGTGAGTGATCAAAATCTATTTTTCAGT	1200
Db	1141	ATAGCTTATTCAAGGTTTCGTC	CAATGTGAGTGATCAAAATCTATTTTTCAGT	1200
Qy	1201	CCTTTCTTCGGTTCTTCGCTAGTACTT	TAGAGTAGAACATGAATTAGAATATCTTAAAGAAAGT	1260
Db	1201	CCTTTCTTCGGTTCTTCGCTAGTACTT	TAGAGTAGAACATGAATTAGAATATCTTAAAGAAAGT	1260
Qy	1261	CATGGTTTTTGAACAGATGGACCTCC	ACGCGTGTAACAAGCCTCTTTCAATTCGAATTCAC	1320
Db	1261	CATGGTTTTTGAACAGATGGACCTCC	ACGCGTGTAACAAGCCTCTTTCAATTCGAATTCAC	1320
Qy	1321	CAATTAGAAGAGAGCAGTTGGTTCAGTCTGTG	AAAGTTTCGTTTCAATATGTACCGTCAA	1380
Db	1321	CAATTAGAAGAGAGCAGTTGGTTCAGTCTGTG	AAAGTTTCGTTTCAATATGTACCGTCAA	1380
Qy	1381	CGCCCACTCTGTTTCAGAACAGGTG	AAAGACTGGATTCCTTGAACAGATAGTTACAACCTA	1440
Db	1381	CGCCCACTCTGTTTCAGAACAGGTG	AAAGACTGGATTCCTTGAACAGATAGTTACAACCTA	1440
Qy	1441	CTGGACATGAAATCCCGAGAGCCGAAATCTG	GACAAAAAGT	1478
Db	1441	CTGGACATGAAATCCCGAGAGCCGAAATCTG	GACAAAAAGT	1478

```

RESULT 5
US-10-966-482-15
; Sequence 15, Application US/10966482
; Publication No. US20050081261A1
; GENERAL INFORMATION:
; APPLICANT: Pennell, Roger I.
; APPLICANT: Dang, Van Dinh
; TITLE OF INVENTION: Methods and Compositions for Altering
; FILE REFERENCE: 18207-002001
; CURRENT APPLICATION NUMBER: US/10/966,482
; CURRENT FILING DATE: 2004-10-14
; PRIOR APPLICATION NUMBER: US 60/510,924
; PRIOR FILING DATE: 2003-10-14
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2066
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: DME promoter
US-10-966-482-15

```

	Query Match	21.5%;	Score 1478;	DB 21;	Length 2066;
	Best Local Similarity	100.0%;	Pred. No. 0;		
	Matches 1478;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	GTTCCTCGGCATTGACTCGCCTGAGAAATCAGAAAGCTTAGATCGGTGAGCTTTTAACTCTCC	60		
Db	589	GTTCCTCGGCATTGACTCGCCTGAGAAATCAGAAAGCTTAGATCGGTGAGCTTTTAACTCTCC	648		
Qy	61	ATTTCCTGTTTATTATACATATTATTTCTCTTTTTTTTCTCTCTCCCTTTTTTATCTGGAATT	120		
Db	649	ATTTCCTGTTTATTATACATATTATTTCTCTTTTTTTTCTCTCTCCCTTTTTTATCTGGAATT	708		
Qy	121	TGTTCTGCTAAATTTTCCAGCTGTTACATTTTCCGATACAGAGAAGAAATCATCTGGGTTTT	180		
Db	709	TGTTCTGCTAAATTTTCCAGCTGTTACATTTTCCGATACAGAGAAGAAATCATCTGGGTTTT	768		

QY 181 TATGTTAAATCAATACATGTTCTCTGTTTCTGATCATAAATCTCAGCTATTAAACACTGAT 240
Db 769 TATGTTAAATCAATACATGTTCTCTGTTTCTGATCATAAATCTCAGCTATTAAACACTGAT 828
QY 241 TTTGATTCGCGTAATAAACAACCTCTGATTCGTTTATCTTCACTTCCCATAAACAT 300
Db 829 TTTGATTCGCGTAATAAACAACCTCTGATTCGTTTATCTTCACTTCCCATAAACAT 888
QY 301 TGCCTTACTTTATTCGCTCTCTTTTACCGTTTCCAGCTTAAAAAATCTTTCGCTATTCAAT 360
Db 889 TGCCTTACTTTATTCGCTCTCTTTTACCGTTTCCAGCTTAAAAAATCTTTCGCTATTCAAT 948
QY 361 GTGTTTCTCGTTTGTGATGAGAAAAATATCTGACAAAAATCAATTTATTCGATTTTAT 420
Db 949 GTGTTTCTCGTTTGTGATGAGAAAAATATCTGACAAAAATCAATTTATTCGATTTTAT 1008
QY 421 GGTGAGATCTTATGTTAAATGTCGCTTCTCTAAACCAAGTCAGTTAAAGAGAGTGTTC 480
Db 1009 GGTGAGATCTTATGTTAAATGTCGCTTCTCTAAACCAAGTCAGTTAAAGAGAGTGTTC 1068
QY 481 GTCCATGTTGCTTCTTGTGTTTGGAGAGATTTTCGGAGAGTTAGGTGAGTGTAT 540
Db 1069 GTCCATGTTGCTTCTTGTGTTTGGAGAGATTTTCGGAGAGTTAGGTGAGTGTAT 1128
QY 541 TTGGGCTGAGGTAGTCATAAGGTTTCAAGGGGGAGTGATTCAATCAAGTGTGTTATCAATT 600
Db 1129 TTGGGCTGAGGTAGTCATAAGGTTTGAAGGGGGAGTGATTCAATCAAGTGTGTTATGAATT 1188
QY 601 CGAGGCTGATCCGGGGATAGATATTTTCGAGTTCCTTTGGAGAAATCAAACTCAACAG 660
Db 1189 CGAGGCTGATCCGGGGATAGATATTTTCGAGTTCCTTTGGAGAAATCAAACTCAACAG 1248
QY 661 AGTTCAATGGTTCCTTGGATTCATTTACACCAAAAACCTAGATCAAGTCTGATGGTAG 720
Db 1249 AGTTCAATGGTTCCTTGGATTCATTTACACCAAAAACCTAGATCAAGTCTGATGGTAG 1308
QY 721 ATGAGAGAGTGATAAACACGAGTCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGG 780
Db 1309 ATGAGAGAGTGATAAACACGAGTCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGG 1368
QY 781 GATTCGTGAACACTGGTGTGGATCATATATGGGGTTTTTGATCATGTGCTCATCAGGGG 840
Db 1369 GATTCGTGAACACTGGTGTGGATCATATATGGGGTTTTTGATCATGTGCTCATCAGGGG 1428
QY 841 TTACCAACTTAAATGATGATGATCAATAGCTTAGCGGATCACATGCACAAAGCTTCGAGTA 900
Db 1429 TTACCAACTTAAATGATGATGATCAATAGCTTAGCGGATCACATGCACAAAGCTTCGAGTA 1488
QY 901 ATAGTCAGAGATCTTTTGGCAGGAGTGAGGTGACCTTCTCTTTAGCACCAAGTTATCA 960
Db 1489 ATAGTCAGAGATCTTTTGGCAGGAGTGAGGTGACCTTCTCTTTAGCACCAAGTTATCA 1548
QY 961 GAAACACCAACCGGTAAATGTAGACCGGTCAATGGAAAATTTTACTTCAGATGGGTATGG 1020
Db 1549 GAAACACCAACCGGTAAATGTAGACCGGTCAATGGAAAATTTTACTTCAGATGGGTATGG 1080
QY 1021 TAAATGGTCTTTTACCCAGAGTGCATCTTCAAGCTGGCTTATATGAGTTTGAATTTGG 1080
Db 1609 TAAATGGTCTTTTACCCAGAGTGCATCTTCAAGCTGGCTTATATGAGTTTGAATTTGG 1668
QY 1081 ATGACTTGTGTAATCCTGATCAGATGCCCTTCTCTTCAAGCTTGTGAGTGGTGGG 1140
Db 1669 ATGACTTGTGTAATCCTGATCAGATGCCCTTCTCTTCAAGCTTGTGAGTGGTGGG 1728
QY 1141 ATAGCTTATTAAGGTTTCTGATGTAGTATCAAAATCTATTTTCAGTTTTTTTTTTTC 1200
Db 1729 ATAGCTTATTAAGGTTTCTGATGTAGTATCAAAATCTATTTTCAGTTTTTTTTTTTC 1788
QY 1201 CTTTTCTTCCTTCTTGCAGTACTTAGAGTGAACATGAATTAGAATATCTTTAAAGAAAGT 1260
Db 1789 CTTTTCTTCCTTCTTGCAGTACTTAGAGTGAACATGAATTAGAATATCTTTAAAGAAAGT 1848
QY 1261 CATGGTTTTGAACAGATGGACCTCCAGCGGTGTAACAAAGCCTCTTTTACAATTTGAATTCAC 1320

RESULT 6

US-10-437-963-37689
; Sequence 37689, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 37689
; LENGTH: 6418
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_41396C.1
US-10-437-963-37689

Query Match 10.5%; Score 723.8; DB 19; Length 6418;
Best Local Similarity 65.3%; Pred. No. 8.6e-177;
Matches 1074; Conservative 0; Mismatches 567; Indels 3; Gaps 1;

QY 5023 TTGCTGATGGGAAAAGCCTACAGCCAGTGGGATAGTCTCAGAAAAGATGGAGGGGA 5082
Db 4178 TTGGGCTGGTAAAAAGAAAACATATGATGGGATATGTTGAGAAAAGAGTTCTTTTACA 4237
QY 5083 ATGAGGGGAGACAGGAACGAAACAAATATCGATTCCATAGACTATGAAGCAATAA 5142
Db 4238 GTCATGGTAAATAAGAAAAGATCCAGAAATGCTAAGGACTCAATTGATGGGAAAACAATA 4297
QY 5143 GACGTGCTAGTATCAGCGAGATTTCTGAGGCTATCAAGGAAAGAGGATGAATAACATG 5202
Db 4298 GACAAGCAGAGGTGAAGAAATATCTGACAAATTTAGAGCGCAGGAATGATATACATGC 4357
QY 5203 TGGCCGTACGAATTAAGAAATTTCTAGAACGGATAGTTAAAGATCATGGTGGTATCGACC 5262
Db 4358 TGGCAGAACGGATAAAGACTTCTTAAACCGATTGGTGAGAGACCATGGGATCGATC 4417
QY 5263 TTGAATGGTTGAGGAATCTCCTCCTGATAAGCAAGGACTATCTTTGAGCATAAAGAG 5322
Db 4418 TTGAATGGTTGCGCTATGTCGATTCAGATAAGCAAGGACTATCTTTAAGCATTAGAG 4477
QY 5323 GTCTGGGTTGAAAAGTGTGAATCGTCGCACTCTTAACACTCCACAAATCTTGCTTTCC 5382
Db 4478 GACTTGGACTTAAAGTGTGAGTGTGCGTCTTTTGACACTCCATCAGATGGCTTTTC 4537
QY 5383 CTGTTGACACGATGTTGGAAGGATAGCAGTAGGATGGGATGGGTGCTCTTACAAACCC 5442

4538 CTGTGATCAAAATGTTGTAGAAATATGTGTAGGCTTGGATGGGTCCACATTCAGCCCC 4597
4543 TACCTGAATCACTTCAGTTTACACCTCTCGAGAGTATACACAGTGTCTCGAGTCCATCCAAA 5502
4598 TACCCGAGTCTCTTCAGTTTGCACCTCTTGGAGATGTATCCAATGCTTGGAGACATACAGA 4657
5503 AATTTCTTTGGCCAGAGCTTTGCAAACTCGATCAACAGAACATCTGTATGAATACACTACC 5562
4658 AATACCTCTGGCCGAGGTTATGCAAGCTTGATCAACGGAATTTGTATGAGCTTCACTATC 4717
5563 AACTGATTAAGTTTGGAAAGGTTATTTGACAAAGAGTAGACCAAAATGTAATGATGTC 5622
4718 AATGATATACTTTTGGAAAGGTTATTTGTACAAAAGTAGGCCAAATGGAACGATGCC 4777
5623 CAATGAGAGGAGTGCAGACACTTTGCCAGTCTTATGCTAGTCAAGACTTGTCTTTAC 5682
4778 CAATGAGACTGAGTGCAGACACTTTGCAAGTGATTTGCCAGTGCAGAGCTCGCTCTTC 4837
5683 CGGCACGAGGAGGAGCTTAAAGTGCAACTATTCGGTCCCTCCCGAGTCCCTTTC 5742
4838 CTGGACCTGAAGAGAGGTTTGTATCATCTGGAACCCCAATAGCTGCAGAAACCTTCC 4897
5743 CTCCTGTACCCATCCGATAGAACTACCTCTTCGTTGGAGAAATCCCTAGCAAGTG 5802
4898 ACCAGACATATAAGTTCTAGGCCCTGTAGTAGTCAAGCTTGTAGTGAATCAAAACACT 4957
5803 GAGCACCATCGAATAGAGAAACTGTGAACCAATATGAAGAGCGGCTCGCCCGGC 5862
4958 GTACCATGTTGAACTATCGCCGCCAATCATTTGAGAGGCCAGCAAGCCAGAACCTG 5017
5863 AAGAGTGCACTGAAATPAAACCGAGAGTGATTTGAAGATGCTTACTACATAGAGGACCTG 5922
5018 AACATGAGACAGAGAGATGAAAGAGTGTGCAATAGAGATAGTTTGTGATGATCCAG 5077
5923 ACAGATCCCAACATAAACTCAACATTTGAACAGTTTGAATGACTCTACGGGAACACA 5982
5078 AAGAAATCCCTACTATCAAGCTTAATTTTGGAGGTTTACACAGAACCTGGAAGGTTATA 5137
5983 TG---GAAAGAAACATGGAGCTCCAAAGAGTGACATGTCCAAGGCTTTGGTGTCTTTC 6039
5138 TCGAAGCAATACATTTGAGATTTGAAGATGCTGATATGTCAAAGGCTTTGGTGTCTATAA 5197
6040 ATCCAACTACTTCTATTTCAACTCCCAACTTAAAGAACATTAAGCCGTCTCAGACAG 6099
5198 CTCTCTGAAGTGTCTCTATCCCACTCTTAAGCTCAAGATGTCACTGCCCTAAGGACAG 5257
6100 AGCACCAGTGTACAGAGTCCAGATTCACATGCTCTCTTGTATGTATGGAATAAAGAG 6159
5258 AGCACCAGTCTATGAACCTGCCAGATTCACATCCACTTCTTGAAGGATTCACACCAAGAG 5317
6160 AACCAGATCATCCAAGTCTTATCTCTTAGCTATATGGACACAGGTGAAACAGCGAAT 6219
5318 AACCAGATGATCTTGGCCATACCTACTCTCTATATGGACCCAGGTGAAACAGCTCAAT 5377
6220 CGGCACAAACCGCTGAACAGAGTGTGGAGGAAAGCGTCTGGCAAAATGTGCTTTGAGC 6279
5378 CAACATGATCACTAAGTCCGTCTGCAATTCACAGAGAAATGTTGAATGTGCAAGCA 5437
6280 AGACTTGTCTGTGTTAAGTCTCAGGAGAGCAACTCAACAGAGTTCAGAGAACTC 6339
5438 ATACATGCTTTTGTGCAACAGTATAGAGAGCGCAGGCCCAAAAGTTTCAGGGAGAC 5497
6340 TTCTGATACCTTGTCCGAGTCCATCAGAGGAGTTTTCGGCTCAACGCGACATATTTCC 6399
5498 TGTGATACATGCCGAAACAGCAATGAGAGGAGCTTTTCACTTAATGGGACATATTTTC 5557
6400 AAGTCAACGAGTTATTTGAGAGCCAGAGTCCAGTCTCAAAACCAATCGATGTTCTTAGAG 6459
5558 AAGTCAATGAGTTATTTGTGATCATGACTCAAGCCGGAACCGATTTGATTTCCAAGGA 5617
6460 ATTGGATATGGATCTCCCAAGAGAGCTGTTTATCTTCGGAACATCAGATAATCAATAT 6519
5618 GTTGGATATGGAATCTCCCTAGGAGAACTGTTTACTTTTGGAACTTCAATTTCCGACAAATAT 5677

QY 6520 TCAGAGGCTTTTCAACGAGCAGATACAGTCTCTGCTTTTGGAAAGGATTCGTATGTGTCC 6579
Db 5678 TTAAGGTTTGAACAACTGAAGAATACACATTCCTTTTGGAGAGGATTTGTGTGCTGA 5737
QY 6580 GTGGATTCGAACAGAAAGACAGAGCACCGGTCCTCATTAATGGAAGGTTGCAATTTCTTG 6639
Db 5738 GAGGCTTTGATAGGACATCAAGAGCACCAGACCACTGTATGCAAGACTCCACTTTCCAG 5797
QY 6640 CGAGCAAAATTGAAGAACACAAAA 6663
Db 5798 CAAGCAAAATTACCAGGAATAAAA 5821

RESULT 7

US-10-425-115-107694
; Sequence 107694, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants
; FILE REFERENCE: 38-21(5322)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 107694
; LENGTH: 2775
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MPT4577_29715C.1
US-10-425-115-107694

Query Match 9.8%; Score 676.2; DB 20; Length 2775;

Best Local Similarity 63.8%; Pred. No. 1.3e-164;

Matches 1042; Conservative 0; Mismatches 588; Indels 3; Gaps 1;

QY 5034 AAAAGCTTACAGCCAGTGGGATAGTCTCAGAAAGATGTGAGGGGGAATGAAGGAGA 5093
Db 523 AAAACGAAACTTATGACTGGGACAGTTTACGAAAGAAAGTGTCTTAATGGTGGGAT 582
QY 5094 CAGGAACGAAACAAACAAATATGGATCCATAGACTATGAAGCAATAAGCGTCTAGT 5153
Db 583 AAACAAAGAAATAATGATGCAAGGGATACCTGTTGATTGGAGGAGCTTAGGCAAGCAGAA 642
QY 5154 ATCAGCGAGATTTCTGAGGCTATCAAGGAAAGAGGATGAATAACAATGTTGGCCGTACGA 5213
Db 643 GTCCGAGAAATATCTGAACATATCAGAGAGAGAGGAATGAATAACAATGCTAGCAGAACGA 702
QY 5214 ATTAAGATTTCTAGAACGAGTAGTTAAAGATCATGTGTGGTATCGACCTTGAATGGTTG 5273
Db 703 ATAAAGGAATTCCTGAAACCGATTGTGTGACAGACCACTGGAGGTATTGATCTTGAATGGCTA 762
QY 5274 ACAGATCTCTCTGTATAAAGCAAGGACTATCTTCAGCATAGAGGTCTGGGTTTG 5333
Db 763 AGAGATGTTCCACCGCAAAAGCAAGGACTTCTTCTAAGCATTAAGGGCTTGAAGTCT 822
QY 5334 AAAAGTGTGAATGGTGGACTCTTTAAACATCCCAATCTTGTCTTCCCTGTGTGACAG 5393
Db 823 AAAAGTGTGAGTGGTCTGCTCTTTGACGCTACATCATATGGCTTTTCCAGTGGACACA 882
QY 5394 AATGTTGAAGATAGCAGTTAGGATGGGATGGGTCCTCTACCAACCCCTCACTGATCA 5453
Db 883 AATGTTGGTCGATATGTGTGAGGCTTGGATGGGTCGCGCTTCAACCATTTGCCAGAGTCT 942
QY 5454 CTTCAAGTTACACTCTCTGGAGCTATACCCAGTGTCTGAGTCCATCCCAAAATTTCTTTGG 5513
Db 943 CTTCAAGTTACACTATTTGAAATGTATCCCTGCTGGAGACATACAGAAAGTACCTTTGG 1002

QY	5514	CCAAGACTTTGCGAACTCGATCAACGAAACATGTATGAATTA	CTACTACCAACTGATTAACG	5573
Db	1003	CCTCGACTATGCAAGCTAGATCAACAGTACATGTGTATGAGCTTCA	TACCAAAATGATTA	1062
QY	5574	TTTGGAAAGGTATTTTGCACAAAGGTAGACCAAAATTTGTAATG	ATCATCTCCAATGAGAGGA	5633
Db	1063	TTTGGAAAGGTTTTCTGCACAAAAGTAAGCCTAAATTGCAATTC	ATGTCTCATTTGAGAGCT	1122
QY	5634	GAGTGCAGACACTTTGCGCAGTCTTATGTCTAGTGCAGACAT	TGCTTTTACCGGACCAAGAG	5693
Db	1123	GAAATGTAAAGCACTTTGCTAGTGTGCAATTTGCAAGTCTAGG	CTTGTCTTCCGACACTGAA	1182
QY	5694	GAGAGGAGCTTAAACAAGTGCACATTTTCCCGTCCCTCCCGAG	TCCCTTTCCTCTGTGATCC	5753
Db	1183	GAAAAACGTTTGGCTACATCGGAGGATCCAAATGTGTAGAGTT	TTTGTCTACCAAAACATAC	1242
QY	5754	ATCCGGATGATGAACACTTACCTCTTCGTTTGAGAGAAATCC	CTCTAGCAAGTGGAGCACCATCG	5813
Db	1243	ATAAATTCAGGGGCTGTTGGCGAACTTGAGTGGAGTGC	GAACCTATCTTAAGCATGTCTGTT	1302
QY	5814	AATAGAGAAAACTGTGAACCAATAATTTGAAGAGCGCGCTCG	CCCGGGCAAGAGTGCAC	5873
Db	1303	TGTGTTAACTGTGACCGCTTCATTTGAGGAAACCATGTAGC	CCAGAACTGAACCTGAGAAAT	1362
QY	5874	GAAATAACCGAGAGTGATTTGAAGATGCTTTACTCAATGAGG	ACCTCGACGATCCCA	5933
Db	1363	GTAGAGCGAAGGACGGTGCATAGAGGATTTCTTTAATGAAG	ACCTGTGATGAAATTCCT	1422
QY	5934	ACAATAAACTCAACATTTGAACAGTTTGGAAATGACTCTAC	GGGAAACATATGGAAGAAAC	5993
Db	1423	ACTATTAATCTTAATATTGAGGAGTTTACACAGAACTTTGA	AGAACTATATGCAAGCAAAC	1482
QY	5994	A---TGGAGCTCCAAGAGGTGACATGTCCAAGCTTTTGGTTG	CTTTGTCATCCAAACACT	6050
Db	1483	CATGTTGAGATGAGTATGCTGACATGTCAAGGCATTTGGTT	GGCCATCAAGCTGATGCT	1542
QY	6051	ACTTCTATTCCAATCCCAACTAAAGAACTATTAGCCGTCTC	AGGACAGAGCACCAAGTG	6110
Db	1543	GCTTCCATTCCAACTCCAAGCTCAAGAAATGTCAATCGTCT	GAGGACAGAAACCAAGTT	1602
QY	6111	TACAGACTCCAGATTCACATCGTCTCTTGATGGTATGGATTA	AAAGAAACACGATGAT	6170
Db	1603	TATGAACCTGCCAGATTCACACCTCTTCTGGAAGGATTC	GAAACAGAGAGAAACAGATGAT	1662
QY	6171	CCAAGTCTTATCTCTTAGCTATATGACACCCAGTGAAC	CCAGCGAAATTCGGCACCAACCG	6230
Db	1663	CCCTGTCATATCTTCTTCCATATGAGCCACAGTGAATCTG	CACAAATCGATCGATGCC	1722
QY	6231	CCTGAACAGAAAGTGTGGAGGGAAAGCGTCTGGCAAAATGT	CTTTGACGAGACTTGTCT	6290
Db	1723	CCCAAGACATTCGTGATTCAAGGGAGACGGGTAGACTATGT	GGAAGTTCAACATGCTTT	1782
QY	6291	GAGTGTAAAGCTGTGAGGGAAGCAAACTCAACAGACTTTC	AGAGAACTCTTCTTGATACCT	6350
Db	1783	AGTTGCAACAAATATACGAGAAATCGAGCTCAGAAAGT	TCAGAGAAACACTTTTGATACCA	1842
QY	6351	TGTGGGCTGCCATGAGAGGAAGTTTCCGCTCAACGGGCAT	ATTTTCCAAGTCAACGAG	6410
Db	1843	TGCCGAAACAGCAATGAGAGGAAGCTTCCCACTTAATGGG	ACGTATTTTCAAGTTAAATGAG	1902
QY	6411	TTATTTGCAACACGAGTCCAGTCTCAAAACCCATCGATGT	TCTCTAGAGATTTGGATATGG	6470
Db	1903	GTAATTTGCTGACCATTGTCTCAAGTCAAAATCCAAATG	ATGTCTCCACGAAATTTGG	1962
QY	6471	GATCTCCCAAGAGACATGTTTTATTCGGAAACATCAGTAA	ACATCAATTAATTCAGAGTCTT	6530
Db	1963	GACCTCCCAAGACGAACTGTTTTACTTTGGAACTTCAGT	TCTCAATAATTCAGAGGTTTA	2022
QY	6531	TCAAGGAGCAGATACAGTCTCTGCTTTTGGAAAGGATTCG	TATGTGTCCGTGGATTCGAA	6590
Db	2023	ACGACTGAAGAGATACAAACGATGCTTTTGGAGAGGAT	TTTGTTCGTGTGAGGGGCTTTGAT	2082
QY	6591	CAGAAGACAAGAGCACCGCGTCCCATTAATGTGCAAGGTT	TGCATTTTCTCGGAGCAAAATG	6650

Db 2083 AGGACAGTGGGGCACCAGGCCCTTTATGCAAGGTTGCAATTTCTCTGTCAGCAAGGTT 2142
 QY 6651 AAGAACAACAA 6663
 Db 2143 GTTAGAGCCAAA 2155
 RESULT 8
 US-10-425-114-31374
 ; Sequence 31374, Application US/10425114
 ; Publication No. US20040034888A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Jingdong
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Kovalic, David K.
 ; APPLICANT: Screen, Steven E
 ; APPLICANT: Tabaska, Jack E
 ; APPLICANT: Cao, Yongwei
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 ; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 ; FILE REFERENCE: 38-21(53313)B
 ; CURRENT APPLICATION NUMBER: US/10/425,114
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 73128
 ; SEQ ID NO 31374
 ; LENGTH: 2380
 ; TYPE: DNA
 ; ORGANISM: Zea mays
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: UC-ZMFLB73161D01_FLI
 US-10-425-114-31374
 Query Match 9.6%; Score 657; DB 18; Length 2380;
 Best Local Similarity 63.1%; Pred. No. 1.2e-159;
 Matches 1030; Conservative 0; Mismatches 600; Indels 3; Gaps 1;
 QY 5034 AAAAAGCCTACAGCCAGTGGGATGCTTCAGAAAAGATGTGGAGGGGAATGAAGGGAGA 5093
 Db 519 AAAAAGAAAACTCATGACTCGGACAGTTTACGGAAAAAAGTGTCTTAATGGTGGGGAC 578
 QY 5094 CAGGAACGAAACAAACAATATGGATTCCATAGACTATCAAGCAATTAAGCATGCTGTAGT 5153
 Db 579 AACAAAGAAGTCATGATGCAAGGATACATGTTGATTGGAGGCGATTAGGCAAGCAGAA 638
 QY 5154 ATCAGCGAGATTTCTGAGGCTATCAAGGAAAGAGGGATGAATAACATGTTGGCCGTACGA 5213
 Db 639 GTACGGGAAATATCTGAAACCATCAGAGAGAGAGGAATGAATAATATGCTAGCAGAACGG 698
 QY 5214 ATTAAGGATTTCTAGAACGGATAGTTAAAGATCATGGTGGTATCGACCTTGAATGGTTG 5273
 Db 699 ATAAAGGAATTTCTGAAACCGATTGGTGACAGACCATGGAAGCATGTGATCTTGAATGGCTA 758
 QY 5274 AGAGAAATCTCTCTGTATAAGCAAGGACTATCTTTGAGCATTAAGAGTCTGGGTTTG 5333
 Db 759 AGAGATGTTCAACAGACAAAGCAAGGACTTCTCTTAAGCAATTAGAGGGCTTGAATCT 818
 QY 5334 AAAAGTGTGAATGCGTGGCACTCTTAACACTCCAAATCTGCTTTCCCTGTGACACG 5393
 Db 819 AAAAGTGTGAGTGTGTTCCGCTCTTGACACTACATCATATGGCTTTCCAGTGGACACA 878
 QY 5394 AATGTTGAAGGATAGCAGTTAGGATGGGATGGTGGCTCTACAAACCTTACCTGATCA 5453
 Db 879 AATGTTGGTCGGATATGTGTGAGGCTTGGATGGGTGGCCATTCAACCACTGCCAGAGTCT 938
 QY 5454 CTTTCAGTTCACCTCTCGGAGCTATACCCAGTGTCTCGAGTCCATCCAAAAATTTCTTTGG 5513
 Db 939 CTTTCAGTTGACCTCTTGGAAATGATCCCATGCTGGAGCACATACAGAAGTACCTCTGG 998
 QY 5514 CCAAGACTTTGCAAACTCGATCAACGAACTGTATGAATTAACACTACCAACTGATTAACG 5573
 Db 999 CCTCGACTATGCGAACTAGATCAACGTACATTTGTATGAGCTTCACTACCAATGATTAAC 1058

RESULT 8

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US-10-425-114-31374
; Sequence 31374, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules
; TITLE OF INVENTION: Plants and Uses Thereof
; FILE REFERENCE: 38-21(53313) B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 31374
; LENGTH: 2380
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLB/31
US-10-425-114-31374

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Query Match	9.6%	Score 657;	DB 18;	Length 2380;
Best Local Similarity	63.1%	Pred. No. 1.2e-159;		
Matches 1030;	Conservative	0;	Mismatches 600;	Indels 3;
				Gaps 1;

Qy	5034	AAAAGCCTTACAGCCAGTCGGGATGTC	CAGAAAAGATGTCGAGGGGAATGAAGCGAGA	5093
Db	519	AAAAAGAAAACCTGATGACTCGGACAG	TTTACGGAAAAAAGTGTCTTCTAATGTGTGGGAC	578
Qy	5094	CAGGAACGAAACAAAAAATATGGATT	CCATAGACTATGAAGCAATGAAGACGTGTAGT	5153
Db	579	AACAAAGAACTCATGATGCAAGGAT	ACTGTGTTGATTTGGGAGGCAGTTAGCGAAGCAGAA	638
Qy	5154	ATCAGCGAGATTTCTGAGGCTATC	CAGGAAAGGAGGATGAATACATGTTGGCCGCTACGA	5213
Db	639	GTACGGGAAAATATCTGAAACCAT	CAGAGAGAGGGAATGAATATATGCTAGCAGAACCG	698
Qy	5214	ATTAAGGATTTCTAGAACCGATAGTT	ATAAGATCATGGTGGTATCGACCTTTGAATGGTTG	5273
Db	699	ATAAAGGAATCTTGAACCCGATTGG	TGCACAGACCATGGAAGCATTGATCTTGAATGGCTA	758
Qy	5274	AGAAATCTCTCTGTATAAAGCCAGGA	CTATCTCTTTGAGCATATAGAGTCTTGGGTTTG	5333
Db	759	AGATGTTTCAACCAGACAAAGCAAG	CTTCTCTTAAGACATTAAGGGCTTGGACCTC	818
Qy	5334	AAAAGTGTGAAATGCGTGCACCTCTT	AACTCCACACTCCACAATCTGCTTTCCCTGTTGACAG	5393
Db	819	AAAAGTGTGAGTGTGTTCCGCTCTT	GCACTATCATATGCTTTCCAGTGGACACA	878
Qy	5394	AATGTTGGAAAGGATPAGCAGTTAG	AGATGGGATGGGTGCTCTACAACCCCTTACTGTAATCA	5453
Db	879	AATGTTGTCGGATATGTGTGAGGCT	TTGGATGGGTGCGCACTTCAACCACCTGCCCAGAGTCT	938
Qy	5454	CTTCAGTTTACACCTCTCGAGACTAT	ACCAGTGTCTCGAGTCCATCCAAAAAATTTCTTTGG	5513
Db	939	CTTCAGTTGCACCTCTCTGGAAATG	TATCCCATGCTGGAGCACATACAGAAGTACCTCTGG	998
Qy	5514	CCAAGACTTTCCAAACTCGATCAAC	GAACTGTATGAATTAACACTACCAACTGATTAACG	5573
Db	999	CCTCGACTATGCGAACTTAGATCAAC	GTGATGAGCTTCACTACCAAAATGATTAAT	1058

Qy	5574	TTTGGAAAGGTATTTTTCGACAAAGAGTAGACCAAAATTTGTAATGATGTCCAATGAGAGGA	5633
Db	1059	TTTGGAAAGGTATTTTTCGACAAAGAGTAAGGCTTAATTCGAATTCATGCTCAAATGAGAGCT	1118
Qy	5634	GAGTGCAGACACTTTTGGCCAGTGCTTATGCTAGTGCAGAGCTTGCTTTTACCGGACACAGAG	5693
Db	1119	GAATGTAAGCACTTTTGTGTCGTAATTTGCAAGTGCTAGGCTTGCTTCTCTGCACCTGAA	1178
Qy	5694	GAGAGGAGCTTTAAACAAGTGCAACTATTTCCGGTCCCTCCGAGTGCCTTTCTCTCTGTAGCC	5753
Db	1179	GAATAATGTTTGGTTTACATTTGGAAGATCCAAATGTTGTAGAGTTTTCTCACCAACATAC	1238
Qy	5754	ATCCGGATGATGAACCTACCTCTTCCGTTGGAGAAATCCCTAGCAAGTGAGGACCAATCG	5813
Db	1239	ATAAATCTCAGGAGGTGTGGCCAACTTTGAGTGGAGTGCAAATTTATCTAAACATGCTGTT	1298
Qy	5814	AATAGAGAAACTGTGAACCAATAATTTGAAGAGCGGCTCGCCGGCGCAAGAGTGCACT	5873
Db	1299	TCTGGTAACTAGCCCATCATCGAGAACCACTGAGCCCAGAAATGTGAAACTGAAAAT	1358
Qy	5874	GAATAAACCGAGAGTGATTAATTTGAAGATGCTTTACTACAATGAGGACCCCTGACGATCCCA	5933
Db	1359	ATAGAGGCACATGAGGGTGCATTTTGAGGATTTCTTTTGTGAAGAACTCTGATGAAATTCCT	1418
Qy	5934	ACAATAAACTCAACATTTGAACAGTTTGGAAATGACTCTACGGGAACACATGTGAAAGAAAC	5993
Db	1419	ACCAATTAATCTTAATATCGAGGAGTTTCACACAAAACCTTGAAGGACTATATGCAAGCAAC	1478
Qy	5994	A---TGGAGCTCCAAGAGGTGACATCTCCAAAGCTTTGGTTGCTTTGTCATCCAACT	6050
Db	1479	AATGTTGAGATTGAAATATGCTGACATGTCAAAGGCAATGGTTGCGATCAACGCTGATGCT	1538
Qy	6051	ACTTCTATTCCAACTCCCAAACTAAAGAACATTTAGCCGCTCTCAGGACAGAGCACCAGTG	6110
Db	1539	GCITTCATTCAACTCCAAAGCTCAAGAAATGTCATCGTCTGAGGACAGAAACCCAGTT	1598
Qy	6111	TACAGCTCCAGATTCACATCGCTCTCTTGATGGTATGGATAAAGAGAAACAGATGAT	6170
Db	1599	TATGAACTGCAGATTCACACCCCTCTTTCTGGAAGGATTCGAAACAGAGAGAAACAGATGAT	1658
Qy	6171	CCAAGTCCCTTATCTTTAGCTATATGACACCGAGTGAAACAGGAAATTCGGCACACCG	6230
Db	1659	CCCTGTCATATCTTTCTTCATATGACCCAGGTGAAACTGCACAATCGATCGATGCC	1718
Qy	6231	CCTGAAACAGAAAGTGTGGAGGAAAGCGCTCTGGCAAAATGTGCTTTGACGAGACTTGTTCT	6290
Db	1719	CCCAAGACATCTGTGATTTCAGGGGACCGGTAGACTATGTGGAAGTTCAAATGCTTT	1778
Qy	6291	GAGTGTAACTGTGAGGGAAGCAAACTCAACAGACTTCAGGAACTCTTCTGATACCT	6350
Db	1779	AGTTGCAACAATAATACAGAGAAATGACGGCTCAGAAAGTCAGAGGAAACATTTTGTATACCA	1838
Qy	6351	TGTCGGACTGCCATGAGAGGAAGTTTTCCGCTCAAAGGACATATTTCCAAGTCAACGAG	6410
Db	1839	TGCCGAAACAGCAATGTAGAGGAAGCTTCCCACTTAATGGGACGTAATTTTCAAGTTAAAG	1898
Qy	6411	TTATTTGCAGACACAGAGTCAGTCTCAAAACCCATCGATGTTCTCTAGAGATTCGATATGG	6470
Db	1899	GTATTTGCTGACCAATTCCTCAAGTCAAAATCCAAATGATGTTCCCAAGAGTTGATTTGG	1958
Qy	6471	GATCTCCCAAGAAGGACTGTTTTACTTCGGAACATCAGTAAACATCAATATTTCAGAGGCTTT	6530
Db	1959	GACCTCCCAAGACGAACTGTTTTACTTTTGGAAAGGTTCTGATGTTGTCGATGATTCGAA	2018
Qy	6531	TCAACGGACGAGATACAGTTCTGTTTTTGGAAAGGATTCGTATGTTGTCGATGATTCGAA	6590
Db	2019	ACGACTGAAGAGATATCAACCGATGCTTTTGGAGAGGATTTGTTTTCGCTGAGGGGCTTGAT	2078
Qy	6591	CAGAAGACAAGGACACCGGTCCATTAATGGCAAGGTTGCAATTTTCTCTGCGACCAATTCG	6650
Db	2079	AGGACAGTGAGGGCACCAAGGCCCTTTATGCAAGGTTGCAATTTTCTGTGCAACAGGTT	2138
Qy	6651	AAGAACAACAAAA	6663

Db 2139 GTTAGAGGCAAAA 2151

RESULT 9

```

US-10-437-963-12410/C
; Sequence 12410, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 12410
; LENGTH: 3769
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_1853C.1
US-10-437-963-12410

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Query Match	9.4%	Score 643;	DB 19;	Length 3769;
Best Local Similarity	64.3%;	Pred. No. 7.1e-156;		
Matches 1031; Conservative	0;	Mismatches 560;	Indels 12;	Gaps 4;
Qy	5050	AGTGGGATAGTCTCAGAAAAGATGTGGAGGGGAATGAAGGAGACACAGAAACGAAACAAAA	5109	
Db	1821	ACTGGGATAATTACGAAAGAAGTCTGCACAATCATGGGAACAGACAAGAAGTGACA	1762	
Qy	5110	ACAATATGGATTCCATAGACTATGAAGCAATAAGACGTGTAGTATCAGCGAGATTTCTG	5169	
Db	1761	AAGCGAAGGACACAATTCGATTTGGGAGCGAGTAGCCCAAGCAAAATGTGAATATGAAATATCTT	1702	
Qy	5170	AGGCTATCAAGGAAAGAGAGGATCAATAACATGTTGGCCGTACCAATTAAGCATTTCCCTAG	5229	
Db	1701	TTGTTATCAAGAGTGGGAATGAATAAATGCTAGCCGAACGGATAAAGACTTTCTAA	1642	
Qy	5230	AACGATAGTTAAAGATCATGTGTGGTATCGACCTTGAATGGTTAGAGAAATCTCCTCTG	5289	
Db	1641	ACCGGCTGGTGAAGACCATGGAAGCATTTGATCTTGAATGGCTAAGAGATATTGAAACCG	1582	
Qy	5290	ATAAAGCAAGGACTATCTCTCAGCATTAAGAGTCTGGGTGTTGAAAGTGTGGAATGCG	5349	
Db	1581	ACAAAGCAAGGCTTCCCTCTCGAGCATTAAGGGCTTGAAGTAAAGCACGGAGTGTG	1522	
Qy	5350	TGGGACTTTAAACATCCCAAACTTTGCTTTTCCCTGTTTGAACAAGATGTTGGAAGGATAG	5409	
Db	1521	TTGGCTCTTTTGAACATACACCAAATGGCTTTTCCAGTGGACACAAATGTTTGCACGGATAT	1462	
Qy	5410	CAGTTAGGATGGGATGGGTGCTCTCAACCCCTACTGTAATCACTTCAGTTACACCTCC	5469	
Db	1461	CGGTGAGGCTTGGAATGGGTGCCACTTCAACCCCTTCGGAGTCTCTTCAACTACACTTGT	1402	
Qy	5470	TGGAGCTATACCCAGTGTGAGTGCAATCAAAAAATTTCTTTGGCCAAAGACTTTGCAAAC	5529	
Db	1401	TGGAACGTGTACCCCTTTGCTGGAAACACATACAGAAATATATTTGGCCCTCGATTTGCAAGC	1342	
Qy	5530	TGCATCAACGAACACATGTATGAATTACCTTACCACCTGATACGTTTGGAAAGATATTTT	5589	
Db	1341	TTGATCAATTGATATTGTTATGACCTTCACTACCAATGATTAACCTTTTGGAAAGGTTTTCT	1282	
Qy	5590	GCACAAAGAGTAGACAAAATTTGTAATGCAATGTCATGTCCAAATGAGAGGAGTGCAGACACTTGTG	5649	


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Db 1281 GTTCAAAAAGCAAGCTTAATTGCAATTCATGTCCTCAATGAGAGCTGAGTGTAAGCATTTTG 1222
QY 5650 CCAGTGCCTTATCTAGTGAAGACCTTGTCTTTACCGCACCAGAGGAGGAGCTTAAACA 5709
Db 1221 CTAGTGCAATTTGCAAGTGCAGGCTGCTCTCTCTGGACCTTCAAGAAGAGACTTCTTAAC 1162
QY 5710 GTGCAACTATTCCGGTCCCTCCCGAGTCTCTTCTCTGTAGCCATCCCGATAGTAGAAC 5769
Db 1161 CAGATATCCAAATGATGC-AGAGAGCAGTCAAAAATAACACATTTCAAGGCTATG 1103
QY 5770 TACCTCTTCGTTGGAGAAATCCCTAGCAAGTGGAGACCATCATGAAATAGAGAAAATCTGTG 5829
Db 1102 GGCCAACTTAGCTGGAACACGAACCATCTCTGG-CACTGTTATGCTGACCAATAAC 1048
QY 5830 AACCAATAATCAAGCGGCTCCCGGCAAGAGTGCACTGAAATAACCCGAGAGTG 5889
Db 1047 AACCTATCATGAAGAACCATCAACCCAGAACCTGAACCTGACATTTGAGAGGCAAGAG 988
QY 5890 ATATTGA---AGATGCTTACTACAATGAGGACCTTGAAGAGATCCCAACAATAAACTCA 5946
Db 987 AGGCCGAATAGAGGATTTTTCAGTGAAGATCCCGATGAATTTCTATTATAATCTTA 928
QY 5947 ACATTGAACAGTTTGGAAATGACTCT---ACGGGAACACATGAAAGAAACATGGAGTCC 6003
Db 927 ATGTCGAGAGTTTGCACAGAACTTGAAGAATTATATTATCATGCAAAACAATATCGAGATCG 868
QY 6004 AAGAGGTGACATGTCGAAGGCTTTGGTGTCTTGCATCCCAACACTACTTCTATTCCAA 6063
Db 867 AAGATGCTGACATGTCGAATGCACTGGTGGCCATGAAGCCCTCAAGCTGCTTCAGTTCCAA 808
QY 6064 CTCCCAAACTAAAGAACATTTAGCCGCTCTCAGGACAGACCAACAGTGTACGAGCTCCAG 6123
Db 807 CTTCCAAGCTCAAGATGTCAACCGCTTCAGAGCTGAACACCAAGTTTATGAGTTGCCAG 748
QY 6124 ATTCAATGCTCTCTCTGATGTTATGATATAAGAGAACCAAGATGATCCAAAGTCTTTATC 6183
Db 747 ACTCAACCCCTTACTGGAAGGATTTGATCAAGAGAACCAAGATGATCCCTCCCATATC 688
QY 6184 TCTTAGCTATATGACACCAAGGTGAACAGCGAATTCGGCACAACCGCTGACAGAGT 6243
Db 687 TTTCTTTTATATGGAACCCAGGTGAACGGCAATCAATCTGATGACCCCAAGACATTTT 628
QY 6244 GTGGAGGAAAGCGTCTGGCAAAATGTGCTTTGACGAGACTTGTCTGAGTGTAAACAGTC 6303
Db 627 GCAACTCCAAGGAACCTGTAAACTCTGTGAGAGTTCGACATGCTTTAGCTGCAACAGTA 568
QY 6304 TGAGGGAAGCAAACTCAACAGAGTTTCGAGGAACCTCTTCTGATACCTTTGCGGACTGCCA 6363
Db 567 CACGGGAATGCACTCTCAGAAAGTTAGAGGAACCTCTCTGATACCATGCGCGAAACAGGA 508
QY 6364 TGAGAGGAAGTTTTCGGCTCAACGGGACATATTTCCAACTCAACAGTATTTTTCGAGACC 6423
Db 507 TGAGAGGAAGCTTTCCACTTAACGGGACATATTTTCAAGTTAATGAGGTATTTGCTGATC 448
QY 6424 AGGAGTCCAGTCTCAAAACCCATCGATGTTCTCTAGAGATTGGATATGGGATCTCCCAAGAA 6483
Db 447 ACTACTCCAGCAAAATCCATTTGATGTTCCACGAAGTTGGATATGGAACCTCCCAAGAC 388
QY 6484 GGACTGTTTACTTCGGAACATCAGTAAACATCAATATTCAGAGGTCTTTCAACGGAGCAGA 6543
Db 387 GAAACAGTTTACTTTTGGAAACCTCAGTTCCTACAAATATTTTCGAGGTTTGTCAACTGAAGAGA 328
QY 6544 TACAGTTCTGCTTTTGGAAAGGATTCGTATGTCCGTGGATTTCCAAACAGAGACAAGAG 6603
Db 327 TACAACATTTGCTTTTGGAGAGGATTTGTGTCGTGAGGGCTTTGATAGGGAATTTGAGGG 268
QY 6604 CACCGCGTCCATTAATGGAAGGTTGCAATTTTCTCTCGGAGCAA 6646
Db 267 CACCAAGACCGCTTTACGCAAGGCTTCAATTTTCTCTGCTAGCAA 225
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RESULT 10

US-10-425-114-33288

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; Sequence 33288, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 33288
; LENGTH: 2294
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLM017089A12_FLI
US-10-425-114-33288
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Query Match 8.4%; Score 575; DB 18; Length 2294;
Best Local Similarity 64.3%; Pred. No. 2.8e-138;
Matches 879; Conservative 0; Mismatches 485; Indels 3; Gaps 1;

QY 5300 GGACTATCTCTTGAGCATAAGAGGCTCGGTTTGAAGAAGTGTGAATGGTGGAGCTCTT 5359
Db 504 GGACTCTCTTCTAAGCATTAGAGGGCTTTGGACTCAAAAGTGTGTAGTGGCTTCGTCCT 563
QY 5360 AACCTCCACAATCTTGCTTTCCCTGTTGACACGAATGTGTGAAGGATAGCAGTTAGGAT 5419
Db 564 GACGCTACATCATATGGCTTTTCAGTGGACACAAATGTGTGCGATATGTGTAGGCT 623
QY 5420 GGGATGGTGGCTCTTCAACCCCTTACCTGAAATCACTTCAGTTTACACCTCTGGAGCTATA 5479
Db 624 TGGATGGTGGCTCTTCAACCATTTGCCAGAGTCTCTTCAGTTTGCACCTATTGGAAATGTA 683
QY 5480 CCCAGTGTGAGTGCATCCAAAATTTCTTTGGCCAAGACTTTCAAAACCTCGATCAACG 5539
Db 684 TCCCATGTGGAGCACATACAGAAGTACCTTTGGCTCGCACTATGCAAGCTAGATCAACG 743
QY 5540 AACCTGTATGAATTTACACTACCACTGATTAAGTGTTCGAAAGTATTTTGCACAAAGAG 5599
Db 744 TACATTGTATGAGCTTCACTACCAATATGTTACTTTTGGAAAGGTTTTCGACAAAAG 803
QY 5600 TAGACCAAAATTTAATGTCATGTCCAATGAGAGGAGTGCAGACACTTTTGCAGTGTCTTA 5659
Db 804 TAAGCCTAATTGCAATTCATGTCCATTGAGAGCTGAATGTAAAGCACTTTGCTAGTGCAAT 863
QY 5660 TGCTAGTCAAGACTTGCTTTTACCGGCACAGAGAGGAGCTTAAACAAGTGCACATAT 5719
Db 864 TGCAAGTGTAGGCTTGCTCTTCCGCACTTGAAGAAAACGTTTGGGTACATCGGAGGA 923
QY 5720 TCCGCTCCCTCCGAGTCTTTTCTCTGTAGCCATCCGATGATAGAACTACCTCTTCC 5779
Db 924 TCCAAATGTTGTAGGTTTGTCCACCAACATACATAAATTCAGGGGCTGTGGCGAACT 983
QY 5780 GTTGGAGAAATCCCTTAGCAAGTGGAGCACCATTCGAATAGAGAAAACCTGTGAACCAATAT 5839
Db 984 TGAGTGGAGTGCAGAACTATCTTAAGCATGCTGTTTGTGTAACTGACCGCTTCATTGA 1043
QY 5840 TGAAGAGCGGCTCGCCCGGCAAGAGTGCATGAAATAACCGAGAGTATTTGAAGA 5899
Db 1044 GGAACCTAGAGCCAGAACCTGAACTTGAATAATGAGGCGAAGGCGGTGCAATAGA 1103
QY 5900 TGCTTACTACAATGAGGACCTCGAGATCCCAACAATAAACTCAACATTTGAACAGTT 5959
Db 1104 GGAATTTCTTAATGAGACCTCGATGAATTTCTTACTATTAATCTTAATTTGAGGAGTT 1163
QY 5960 TGGAAATGACTCTACCGGGAACATGGAAGAAACA---TGGAGCTCCAGAAAGGTGACAT 6016
```

Db 1164 TACACAGAACTTGAAGAACTATATGCAAGCAAAACCAATGTTGAGATTGAGATGCTGACAT 1223
QY 6017 GTCCAGGCTTTGGTGTCTTTCATCCAACTACTTCTATTCCTCAACTCCCAAACTAAA 6076
Db 1224 GTCAAGGCAATGGTGTGCCATCACCCCTGAAGCTGCTTCCATTCCTCAACTCCAAAGCTCAA 1283
QY 6077 GAACATTAGCGTCTCAGGACAGAGACCAAGTGTACGAGCTCCAGATTCACATGCTCT 6136
Db 1284 GAATGTCACTGCTTTAGGACAGAAACCAAGTTTATGAAGTTCAGGAGTTTCAACCCCTCT 1343
QY 6137 CTTGATGCTATGATTAAGAGAACCAAGATGATCCCAAGTCTTCTTCTAGCTATATG 6196
Db 1344 TCTGGAAGATTGGAACAGAGAAACCAAGATGATCCCTGCTTCTTCTTCCATATG 1403
QY 6197 GACACAGGTGAACAGCAAGTTCGGCAACACCGCTGAAAGAGTGTGGAGGAAAGC 6256
Db 1404 GACCCAGGTGAACCTGCAATCAACCAATGCGCCCAAGACATCTGTGATTGAGGGA 1463
QY 6257 GTCTGCAAAATGCTTTGACAGAGACTTGTCTGAGTGTAAACAGTCTGAGGGAAGCAA 6316
Db 1464 GACTGCTCAACTATGTGGAAGTTTAAACATGCTTTAGTTGCAACAGTTTACGAGAAATGCA 1523
QY 6317 CTCACAGACAGTTCGAGGAACTCTTCTGATACCTTGTCTGAGTCTGCCATGAGGAGTTT 6376
Db 1524 GGCTCAGAAAGTCAGAGGAACTCTTGTATACCATGCCGACAGCAATGAGAGGAGCTT 1583
QY 6377 TCCGCTCAACGGGACATATTTCCAGTCAACAGATTATTTGACAGACCAAGAGTCCAGTCT 6436
Db 1584 CCACATTATGGGACATATTTCAAGTTAATGAGGTTATTTGTCGACCATGTTTCAAGCCA 1643
QY 6437 CAAACCCATCGATGTTCTTAGAGATTGGATATGGGATCTCCCAAGAGGACTGTTTACTT 6496
Db 1644 AAATCCAAATGATGTCCTCCAGAGTTGGATATGGGACCTCCCAAGAGGAACTGTTTACTT 1703
QY 6497 CGGAACATCAGTAACTCAATATTCAGAGGCTTTCAAGCGAGCAGATACAGTCTGCTT 6556
Db 1704 TGGAACTCAGTCTTCAATATTTAGAGGTTTAAACGACTGAAGAGATCAACAATGCTT 1763
QY 6557 TTGGAAGGATTCGATGTCGCTGATTTCGAACAGAGAGACAGAGCAGCAGTCCATT 6616
Db 1764 TTGGAGAGATTGCTTTGTTGAGGGGCTTTGATAGGACAGTAAAGGCAACCAAGGCCCT 1823
QY 6617 AATGGCAAGGTTGCAATTTCTCGGACGAAATTTGAAGAACCAACAAA 6663
Db 1824 TTATGCAAGGTTGCAATTTCTCGGACGAAAGTTGTTAGAGGCAAAA 1870

RESULT 11

US-10-425-115-107691
; Sequence 107691, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 107691
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_2912C.1
US-10-425-115-107691

Query Match 8.4%; Score 575; DB 20; Length 2917;
Best Local Similarity 64.3%; Pred. No. 3.2e-138;
Matches 879; Conservative 0; Mismatches 485; Indels 3; Gaps 1;

QY 5300 GGACTATCTCTTGGACATAAGAGGTCTGGGTTTGAAGTGTGTAATCGTCGACTCTT 5359
Db 504 GGACTTCTCTTAAAGCATTTAGAGGGCTTGGACTCAAAAGTGTGAGTGGCTCTCTT 563
QY 5360 AACACTCCACATCTTGTCTTCCCTGTTGACACGATGTTGGAAGGATAGCAGTTAGAT 5419
Db 564 GACGCTACATCATATGGGCTTTTCCAGTGGACAAATGTTGGTCGATATGTTGAGGCT 623
QY 5420 GGGATGGGTGCTCTACAAACCCCTTACCTGAATCACTTCAGTTTACACCTCTCGAGCTATA 5479
Db 624 TGGATGGGTGCGCTTCAACCATTTGCCAGAGTCTCTTTCAGTTGCCATTTGGAATGTA 683
QY 5480 CCCAGTGTCTGAGTCCATCCAAAAATTTCTTTGGCCAGACTTTTGGAAACTCGATCAACG 5539
Db 684 TCCCATGCTGGAGCACATACAGAAGTACCTTTGGCTCGACTATGCAAGCTAGATCAACG 743
QY 5540 AACACTGTATGAATTTACACTACCACTGATGTTAGTGTGGAAGGTTATTTGACAAAGAG 5599
Db 744 TACATTTGTATGAGTCTTCACTACCAATGATTTACTTTTGGAAAGGTTTCTGCAAAAAG 803
QY 5600 TAGACCAATTTGATGATGTCATGTCATGAGAGAGAGTGCAGACACTTTTCCAGTCTTTA 5659
Db 804 TAAGCTTAATTCATTTCAATTCATGTCATTTGAGACTGAATGTAAGCACTTTGCTAGTCAAT 863
QY 5660 TGCTAGTCAAGACTTGTCTTTACCGGCACACAGAGAGAGGCTTAAACAAGTGCACACTAT 5719
Db 864 TGCAGAGTGTAGGCTTGTCTTCCCGCACCTCAAGAAACAACTTTGGCTTACATCGAGGA 923
QY 5720 TCCGCTCCCTCCGAGTCTCTTCTCTGTGATGCCATCCGATGATAGAACTACTCTTCC 5779
Db 924 TCCAAATGTTGAGAGTTTGTGACCAACATACATAAATTCAGGGGCTGTTGGCGAAT 983
QY 5780 GTTGGAGAAATCCCTAGCAAGTGGAGACCATCGAATAGAGAAACCTGTGAACCAATAAT 5839
Db 984 TGAGTGGAGTGCAGACTATCTTAAGATGCTGTTTGTGTGTAACCTGCAGCCGTTCAATGA 1043
QY 5840 TGAAGAGCGCGCTCGCGGCAAGAGTGCATGAAATTAACCGAGAGTGATTTGAAGA 5899
Db 1044 GGAACCATGAGCCCGCAACCTGAAATGTAGAGCGAGGCGGTGCAATAGA 1103
QY 5900 TCGTTTACATAGAGGACCTCGAGAGATCCCAACAATAAACTCAACATTTGAAACAGTT 5959
Db 1104 GGAATTTCTTAATGAAGACCTGATGAAATCTCTACTATTAATCTTAATTTGAGAGGTT 1163
QY 5960 TGGATGCTCTACGGAACACATGGAAGAAACA ---TGGAGCTCCAAAGAGTGACAT 6016
Db 1164 TACACAGAACTTGAAGAACTATATGCAAGCAACCAATGTTGAGATTGAGTATGCTGACAT 1223
QY 6017 GTCCAGGCTTTGGTGTCTTTCATCCAACTACTTCTTATTTCCAACTCCCAAACTAAA 6076
Db 1224 GTCAAGGCAATGGTGTGCCATCACCCCTGAAGCTGCTTCCATTCCTCAACTCCAAAGCTCAA 1283
QY 6077 GAACATTAGCCTCTCAGGACAGAGACCAAGTGTACGAGCTCCAGATTCACATGCTCT 6136
Db 1284 GAATGTCACTGCTCTTAGGACAGAAACCAAGTTTATGAAGTTCGCAAGTTTCAACCCCTCT 1343
QY 6137 CTTGATGATGATTAAGAGAACCAAGATGATCCCAAGTCTTCTTCTAGCTATATG 6196
Db 1344 TCTGGAAGGATTGGAACAGAGAGAACCAAGATGATCCCTGCTGATATCTTCTTTCCATATG 1403
QY 6197 GACACAGGTGAACAGCGAATTTCCGCAACACCGCTGAAAGAGTGTGGAGGAAAGC 6256
Db 1404 GACCCAGGTGAACCTGCAATCAACCAATGCGCCCAAGACATCTGTGATTGAGGGA 1463
QY 6257 GTCTGCAAAATGCTTTGACAGAGACTTGTCTGAGTGTAAACAGTCTGAGGGAAGCAA 6316
Db 1464 GACTGCTCAACTATGTGGAAGTTTAAACATGCTTTAGTTGCAACAGTTTACGAGAAATGCA 1523
QY 6317 CTCACAGACAGTTCGAGGAACTCTTCTGATACCTTGTGAGTCTGCCATGAGGAGGTTT 6376
Db 1524 GGCTCAGAAAGTCAGAGGAACTCTTGTATACCATGCCGACAGCAATGAGAGGAGCTT 1583


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; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 28644
; LENGTH: 1696
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_125868C.1
US-10-424-599-28644

Query Match
  7.6%; Score 523.8; DB 18; Length 1696;
Best Local Similarity 66.0%; Pred. No. 5.1e-125;
Matches 806; Conservative 0; Mismatches 382; Indels 33; Gaps 2;

QY 5470 TGAGCTATACCCAGTCTCGAGTCCATCCAAAATTTCTTTGGCCAAAGACTTTTGAAC 5529
DB 1 TAGAATTGTACCCAGTGTGGAGTCCATACAAAATATCTTGCCCCCGCTCTGCAGC 60
QY 5530 TCGATCAACGAACACTGTATGAATTAACACTACCAACTGATTAAGTTTGGAAAGGTATTTT 5589
DB 61 TAGACCAAGAACATTTGTATGAGTGCATTAACAGCTGATTAATTTGGAAAGGTCTTCT 120
QY 5590 GCACAAAGAGTAGACCAAAATTTGAATGCAATGCTCAATGAGAGAGAGTGCAGACTTTG 5649
DB 121 GTACTAAAAGCAAGCAAAATTTGCAATGCTTGCCCAATGAGAGGGGAATGCAGACACTTTG 180
QY 5650 CCAGTGTCTTATGCTAGTGAAGACTTGTCTTTACCGCCACAGAGGAGAGGCTTAACAA 5709
DB 181 CAAGTGTCTTTGAAGTGAAGCTCGCCCTGCGAGATCAGACGAGAAGATAGTTA 240
QY 5710 GTGCAACTATTCGGGTCCCTCCCGAGTCTCTTCTCTGTAGCCATCCCGAGTAGAAG 5769
DB 241 TCACAACCTGGAACAAATGCAATGACGACGAACCCATCACTAGTCAATCAGTCCCT 300
QY 5770 TACCTCTCCGTTGGAGAAATCCCTAGC-----AA 5799
DB 301 TGCTTCTCCCTGAAAATATATAAACCAAGCAGAACTTCAACAAACAGAAAGTATCAGGCAAC 360
QY 5800 GTGGAGCACCATCGATAGAGAACTGTGAACCAATATTAAGAGCGCGCTCGCCG 5859
DB 361 TAGAAGCAAAATCTGAAATCAACATCAGCCCACTTATTAAGAGCGCAGCAACTCCAG 420
QY 5860 GGCAGAGTGCCTGAAATTAACCGAGGTGATTTGAAGATGCTTACTACAATGAGGACC 5919
DB 421 AGCCAGATGCTCCCAAGTATCGGAAATGATATAGAGGATAC---CTTCAATGAGGAT 477
QY 5920 CTGACGAGATCCCAACAAATAAATCAATTAAGACAGTGTGGAATGACTTACGGGAAC 5979
DB 478 CATGTGAATTTCCCACTCAAACTAGACATAGAGAGTTCATTTTGAATTTTCAAAACT 537
QY 5980 ACATGGAAGAAACATGGAGCTCCAGAGGTGACATGTCGAAGGCTTTGTTGCTTTCG 6039
DB 538 ATATGCAAGAAACATGGAACTTCAAGAGGTGAATGTCAAGGCTTTGTTGCTTCTAC 597
QY 6040 ATCCCAACTACTTCTTATTTCAACTCCCAAACTAAAGAACTATAGCCCTCTCAGACAG 6099
DB 598 ATCCAGGTCTGATGATCTTCTACACCAAGCTGAAGATGTGAGCCGCTTCCGAAACAG 657
QY 6100 AGACCAAGTGTACGAGTCCAGATTCATCGTCTCTTGAATGATGGAATAAAGAG 6159
DB 658 AGCATTTATGTTATGAATCTCCCTGATTCATCTCCCTTCTGAATGGGTGGAACAGCGAG 717
QY 6160 AACCATGATCCAGTCTTATCTTCTAGCTATATGACACAGCTGGAACAGCGAAT 6219
DB 718 AACCTGATATCCAGCAAAATCTTCTAGCTATATGGAATCTCAGGGGAGACAGAGAT 777
QY 6220 CGGCAAAACCGCTGAAACAGAGTGTGGAGGGAAGCGCTGCGCAAAATGTGCTTTGAGC 6279
DB 778 CTATACAGCCACAGAAAGCAATGCACTCTCAGGAATGTGCGCGGCTCTGTAAATGAGA 837
QY 6280 AGACTTGTCTGAGTGTAAACAGTCTGAGGGAAGCAAACTCAGACAGATTCAGGAACCTC 6339
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DB 838 ATGAATGTTTTTTCATGCAACAGTTTCCGTGAAGCAAGTTTTCACAGATAGTTTCGAGGACAC 897
QY 6340 TTCTGATACCTTGTGGAGTGCATGAGAGGAGTTTTCGGCTCAACGGGACATATTTCC 6399
DB 898 TCTGATACCATGTGCAACAGCTATGAGAGGAGCTTTCCGTAAATAGCACCTATTTTC 957
QY 6400 AAGTCAACGAGTTATTTGAGACCAAGAGTCCAGTCTCAAAACCATCGATGTTCTTAGAG 6459
DB 958 AAGTCAACGAGTCTTTTGAGACCAATGACTCAAGTCTTAAACCAATTAGTGTTCCTCCGAA 1017
QY 6460 ATTGATATGGATCTCCCAAGAGACTGTTTACTTCCGAACATCAGTAACATCAATAT 6519
DB 1018 GTTGGATCTGGAACCTTGTATGCGGAACAGTGTATTTTGGAACTCTCATCTATAT 1077
QY 6520 TCAGAGGTCTTTCAACGGAGCAGATACAGTCTCTGCTTTTGGAAAGATTCGTATGTGTC 6579
DB 1078 TCAAGGTTTATCAACAGGAAATTTCAACATGCTTTTGGAGAGATATGCTGCGTGC 1137
QY 6580 GTGGATTCGAACAGAGCAAGAGCACCCTGCTTCAATTAATGGCAAGTTTGCATTTTCTG 6639
DB 1138 GTGGATTTGACCGGGAAGAGCAGCACCCTCTGTTGGCTAGACTACACTTCCCGG 1197
QY 6640 CGAGCAAAATTTGAACACACA 6660
DB 1198 TTAGCAGGTTGCTTAAGAATA 1218

RESULT 14
US-09-840-743-44
; Sequence 44, Application US/09840743
; Publication No. US20030135890A1
; GENERAL INFORMATION:
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
; APPLICANT: Hannon, Mike
; APPLICANT: Okamuro, Jack Kishiro
; APPLICANT: Tatrinova, Tatiana Valerievna
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids That Control Plant Development
; FILE REFERENCE: 023070-099910US
; CURRENT APPLICATION NUMBER: US/09/840,743
; PRIOR APPLICATION NUMBER: 2001-04-23
; PRIOR FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
; LENGTH: 758
; TYPE: DNA
; ORGANISM: Lycopersicon esculentum
; FEATURE:
; OTHER INFORMATION: tomato 12624037 EST469495
US-09-840-743-44

Query Match
  6.0%; Score 411.8; DB 10; Length 758;
Best Local Similarity 72.9%; Pred. No. 4.8e-96;
Matches 530; Conservative 0; Mismatches 197; Indels 0; Gaps 0;

QY 5062 TCAGAAAGATGTGGAGGGGAATGAAGGAGACAGCAAGCAAAACAAATATGATTT 5121
DB 4 TGAGAAAGAGTCCCAATCAAAAGAGTGGGAAAAAGAAAGCAAGGATGCAATGGACT 63
QY 5122 CCATAGACTATCAAGCAATTAAGACGTGTAGTATCAGCCAGATTTCTGAGGCTTATCAAG 5181
DB 64 CATTAACATCAAGAGCTCAGAGTGCAGAGTAAAGAAATTTCTGATTTAAGG 123
QY 5182 AAAGAGGATGAATTAACATGTTGGCCGTACGAAATTAAGGATTTCTTAGAACCGATAGTTA 5241
DB 124 AACGAGGATGAACAACTGCTGGCAGAGCGAATTAAGGACTTCTCTCGATAGACTGGTGA 183
QY 5242 AAGATCATGCTGATTCGACCTTGAATGTTGAGAGAAATCTCTCTCTGTAAGCAAGG 5301
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Db 184 GGGATCATGGAAAGTATTGACCTAGAAATGGTTGAGAGATGTGGCCCGACAGAAAGCGAAAG 243
QY 5302 ACTATCTCTTGAGCATATAGAGCTCTGGGTTTGAAAGTGTTCAAATGCGTGGACCTCTTAA 5361
Db 244 AGTATCTCTTGAGTATTCGTGGACTGGGCTCGAAGGTGTAGAAATGTGTGGCGCTATTAA 303
QY 5362 CACTCCACAATCTGCTTTCCTCTGTGTGACCAAAATGTTGGAAGGATAGCAGTTAGATGG 5421
Db 304 CACTTCATAAACCTTGCTTTCAGTTGACACAAATGTTGGAGCAATAGCTGTGAGATTAG 363
QY 5422 GATGGTGCTCTTCAACCCCTACCTGAATCACTTCAGTTACACCTCTCGGAGCTATACC 5481
Db 364 GATGGGTTCTCTCCAACCACTCTCTGAGTCCCTGCACTGCACTCTCTTGAATCTGATC 423
QY 5482 CAGTCTCGAGTCCATCCAAAATTTCTTTGGCCGAAGACTTTGCAACTCGATCAACGAA 5541
Db 424 CAATTCCTGAGTCAATTCAGAAAGTATCTCTGGCCACGACTCTGCAAGCTCGATCAGAA 483
QY 5542 CACTGTATGAATTCACACTACCAACTGATTACGTTTGGAAAGGTAATTTTGCAAAAGAGTA 5601
Db 484 CACTGTATGAGTTGCACTACCAATGATTACCTTTGGAAAGGTTTCTGCAACCAAGTA 543
QY 5602 GACCAAAATGTAATGCATGTCCAAATGAGAGGAGAGTGAGACACTTTCAGTGTCTTATG 5661
Db 544 AGCCTAACTGTAAATGCATGCCCACTGAGAGCTGAATGCAGACACTTTGCTAGTGTCTAGC 603
QY 5662 CTAGTGCAAGACTTCTTTACCGGCACAGAGAGAGAGGCTTAACAAGTGCACATATTC 5721
Db 604 CAAGTGCAAGACTTTCCTCTGTCGCCACAGAGAGAGATAGTGAGTTTCAGCAGTTC 663
QY 5722 CCGTCCCTCCCGAGTCTTTCTCTGCTGTAGCCATCCCGATGATAGAACTACCTCTTCGCT 5781
Db 664 CGATCCCTAGTGAGGGAAATGAGCTGCGCATTCAGGCCCATGTATTACCCCGAGAGC 723
QY 5782 TGGAGAA 5788
Db 724 TGAAGTA 730

RESULT 15
US-10-425-114-4526
; Sequence 4526, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 4526
; LENGTH: 1543
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700381361_FLI
US-10-425-114-4526

Query Match 5.8%; Score 399.6; DB 18; Length 1543;
Best Local Similarity 60.8%; Pred. No. 1.2e-92;
Matches 730; Conservative 0; Mismatches 449; Indels 21; Gaps 4;
QY 5453 ACTTCAGTTACACCTTCCTGGAGCTATACCAGTGTCCAGTCCATCCAAAATTTCTTTG 5512
Db 10 AGTACAGCTACATCTCTTGGAGCTATATCTTATCTTGGAAATCTATACAAAAGATCTTTG 69
QY 5513 GCCAAGACTTTTGCAAACTCGATCAACGAACTGTATGAATTTACACTACCAACTGATTAC 5572

Db 70 GCCTCGCCTTTGTAACTCGATCAGCAGACACTGTATGAGCTGCATTATCATAGATTATAC 129
QY 5573 GTTTGGAAAGGTATTTTGGCAAAAGAGTAGACCAAAATGTTAATGATGTCCAAATGAGAGG 5632
Db 130 ATTTGGAAAGGTCTTTTGTACCAAAAGACAGCAAAATTCGAATGATGATGCCCAATGAGGAG 189
QY 5633 AGAGTGACAGACACTTTGCGAGTGCTTATGCTAGTGCRAAGACTTGCTTTTACCGGACACAGA 5692
Db 190 TGAGTGCAAGCATTTTGAAGTGCAATTTGCAAGTGCATTTGCAAGTGCATTTGCACTTCTGCTCCCA 249
QY 5693 GGAGAGGAGCTTAAACAAGTGCAACTATTTCCGCTCCCTCCCGAGTCTTTCTCTCTGTAGC 5752
Db 250 GGAGGAAAGCTTAGTGAAGTTGAGCAATCCATTTGCTTCCAGAAATAGCAGCATGCATGC 309
QY 5753 CATCCCGATGATAGAACTACCTCTTCCGTTGGAGAAATCCCTAGCAAGTGGAGACCATTC 5812
Db 310 TATGAATTCGACTACCTACCTCGCTTTCAGGGAGTATCCATTCAGGGAGTTCCTTCTTCC 369
QY 5813 GAATAGAGAAACTGTGAACCAATAATTTGAAGCGCGCTCGCCGGGCGAAGAGTGCAC 5872
Db 370 TAAG-----AACTCAGAGCCAATAATCAGAGGCTCGAAGTCCCAAGAGAGAAAGACC 423
QY 5873 TGAATAACCCGAGAGTGATATTGAAGATGCTTACTACAATGAGGACCCCTGACGAGATCCC 5932
Db 424 TCCAGAAACCATGGAATGATATTGAAGATTTTATGAAGA-----TGGTGAATCCC 477
QY 5933 AACATAAACTCAACATTGAACAGTTTGGAAATGATCTACGGGAACACAT---GGAAG 5989
Db 478 AACATAAAGCTTAACATGGAAGCTTTTGCACAAACTTGGAGAAATTCATTTAAAGAAAG 537
QY 5990 AAAATGAGCTCCAAAGAGTGACATGTCCAAGCTTTGGTTGCTTTGATCCCAACAC 6049
Db 538 CAATAACGACTCCAGTCTGATGATATTGCAAAAGCATTTGGTTGCTATTAGCAGTGAAGC 597
QY 6050 TACTTCTATTCCAACTCCCAAACTAAAGAACTATTAGCCGTCTCAGGACAGAGACCAAGT 6109
Db 598 AGCTTCGATTCCTGTACCGAACTAAAGAAATGTGCTTAGGCTTCGAAACAGAACACTGT 657
QY 6110 GTACGAGCTCCAGATTCACATCGTCTCTTGAT-----GGTATGGATAAAGAGAAC 6163
Db 658 GTATGAGCTTCAGATGCACATCCACTTTTACACAGCTAGGACTTGAACACGGGAACA 717
QY 6164 AGATGATCCAAAGTCTTATCTTTAGCTATATGACACACAGGTGAACACAGCAATTCGCG 6223
Db 718 TGATGATCTTACCCCATACTTATTGGCCATATGACACACAGATGGAATAAGGAATAATAC 777
QY 6224 ACAACCGCTGAAACAGAAAGTGTGGAGGAAAGCGCTCTGGCAAAATGTGCTTTGACGAGAC 6283
Db 778 TAAGACACCAAAACCATCTGTGACCCCTCAAATGGGAGGCGATTTATGCAATAATGAAAT 837
QY 6284 TTGTTCTGAGTGTAAACAGTCTGAGGGAAGCAAACTCAGACAGAGTTCGAGGAACTCTTCT 6343
Db 838 GTGCCACAAATTTGACTGCGAGAGAAAGAAACCAATCTAGATATATGTCAGAGGACACAATTC 897
QY 6344 GATACCTTGTCCGAGCTGCGCATGAGAGGAAAGTTTTCGCTCAACGGGACATATTTCCAAAGT 6403
Db 898 GGTTCCTTGTGAAACAGCTATGAGGGGTAGTTTCCACTTAACGSCACTTACTTTCAAGT 957
QY 6404 CAACGAGTTATTTGACAGACCGAGTCCAGTCTCAAAACCCATCGATGTTCTCTAGAGATTG 6463
Db 958 CAATGAGGTATTTGCTGACCAAGATCTAGCCACAAACCAATCCATGTGGAAAGGAGAT 1017
QY 6464 GATATGGGATCTCCCAAGAGGACTGTTTACTTTCGGAACATCAGTAACATCAATATTAC 6523
Db 1018 GCTATGGAACCTTGAAGCGGCAATGCTTTTTCGGGACTTCAGTACCCACCATATTCAT 1077
QY 6524 AGGTCTTTTCAACGGAGCAGATACAGTCTCTGCTTTTGGAAAGGATTCGTATGTCCGTGG 6583
Db 1078 AGTTTAAAGACAGAGAAATACAAATGCTTCTGGAGGGATTTGCTGTGTGCGAGG 1137
QY 6584 ATTTCGAAACAGAGACAGAGCAACCGCTCCATTAATGCGAAGTTGCAATTTTCTCTGCGAG 6643

Db 1138 ATTCGACATGGAGACTAGACCAAGGCCCTCTGTGCCCCCATTGACACATTATAGCAAG 1197

Search completed: June 27, 2005, 06:04:27
Job time : 3878 secs

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Result No.	Score	Query Match	Length	DB	ID	Description	
1	6873	100.0	6873	4	US-09-553-690-5	Sequence 5, Appli	
2	4788.6	69.7	12785	4	US-09-553-690-1	Sequence 1, Appli	
3	1478	21.5	1478	4	US-09-553-690-6	Sequence 6, Appli	
4	205	3.0	205	4	US-09-553-690-4	Sequence 4, Appli	
5	150.4	2.2	302	4	US-09-313-294A-7228	Sequence 7228, Ap	
C	6	91.6	1.3	7218	1	US-08-233-463-14	Sequence 14, Appli
	7	73	1.1	7218	1	US-08-232-543-14	Sequence 14, Appli
C	8	58.2	0.8	612	4	US-09-902-540-1357	Sequence 1357, Ap
C	9	52.4	0.8	1141	4	US-09-806-708B-22	Sequence 22, Appl
C	10	52	0.8	1039	4	US-09-902-540-1280	Sequence 1280, Ap
C	11	50.8	0.7	296	4	US-09-313-294A-5782	Sequence 5782, Ap
C	12	48	0.7	29686	4	US-09-949-016-16379	Sequence 16379, A
13	48	0.7	36731	4	US-09-949-016-13770	Sequence 13770, A	
14	47.4	0.7	2169	3	US-09-434-408-3	Sequence 3, Appli	
C	15	45.8	0.7	2527	4	US-09-244-805-29	Sequence 29, Appl
C	16	45.6	0.7	260247	4	US-09-949-016-13358	Sequence 13358, A
C	17	45.4	0.7	614	4	US-09-902-540-1318	Sequence 1318, Ap
18	45	0.7	1141	4	US-09-806-708B-22	Sequence 22, Appl	
19	44.6	0.6	554	4	US-09-489-039A-1758	Sequence 1758, Ap	
20	44.6	0.6	570	4	US-09-489-039A-1676	Sequence 1676, Ap	
21	44.4	0.6	176006	4	US-09-949-016-16804	Sequence 16804, A	
22	44.4	0.6	194937	4	US-09-949-016-17032	Sequence 17032, A	
23	44.4	0.6	194937	4	US-09-949-016-17033	Sequence 17033, A	
24	44.4	0.6	253375	4	US-09-949-016-12849	Sequence 12849, A	
C	25	44.2	0.6	183	4	US-09-621-976-9726	Sequence 9726, Ap
C	26	44	0.6	2523	4	US-09-861-451A-29	Sequence 29, Appl
27	43.6	0.6	2207	3	US-08-956-332-3	Sequence 3, Appli	

QY	301	TGCTTACTTTATTCGCTCTCTCTTTTACCGTTCCAGCTAABAAATTCCTCGCTATTCAAT	360
Db	301	TGCTTACTTTATTCGCTCTCTCTTTTACCGTTTCAGCTAAAAATTCCTCGCTATTCAAT	360
QY	361	GTGTTTCTCGTTTGTGTGATGAGAAAAATATCTGACAAAAATCATTTATTGCAATTTAT	420
Db	361	GTGTTTCTCGTTTGTGTGATGAGAAAAATATCTGACAAAAATCATTTATTGCAATTTAT	420
QY	421	GGTGCAGATTCCTTAGTTAATGTCGCCTTCTCTAAACCAAGTCAGATTAAAAAGGAGTGTTC	480
Db	421	GSTGCAGATTCCTTAGTTAATGTCGCCTTCTCTAAACCAAGTCAGATTAAAAAGGAGTGTTC	480
QY	481	GTCCATGTTGCTTTGTTTGGTGTGAGAGAGTTTTCGGAGAGTTAGGTGAGTGTAT	540
Db	481	GTCCATGTTGCTTTGTTTGGTGTGAGAGAGTTTTCGGAGAGTTAGGTGAGTGTAT	540
QY	541	TTGGGTGAGGTAGTGATTAAGGTTTGAAGGGGAGTGATTATCAAGTGTGTTATGAAT	600
Db	541	TTGGGTGAGGTAGTGATTAAGGTTTGAAGGGGAGTGATTATCAAGTGTGTTATGAAT	600
QY	601	CGAGGCTGATTCGGGGGATAGATATTTTCGAGTTCCTTTGGAGAAATCAAACTCAAACAG	660
Db	601	CGAGGCTGATTCGGGGGATAGATATTTTCGAGTTCCTTTGGAGAAATCAAACTCAAACAG	660
QY	661	AGTTCAATGGTCTTCGATTCATTTTACACCCAAAAAACCCTAGATCAAGTCTGATGGTAG	720
Db	661	AGTTCAATGGTCTTCGATTCATTTTACACCCAAAAAACCCTAGATCAAGTCTGATGGTAG	720
QY	721	ATGAGAGAGTGATAAACACAGGATCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGG	780
Db	721	ATGAGAGAGTGATAAACACAGGATCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGG	780
QY	781	GAATTCGCAACTGTGTGGATCATPAATGGGGTTTTTGATCATGTGCTCATCAGGGCG	840
Db	781	GAATTCGCAACTGTGTGGATCATPAATGGGGTTTTTGATCATGTGCTCATCAGGGCG	840
QY	841	TTACCAACTTTAGTATGATGATCAATAGCTTAGCGGGATCAATGCACAAAGCTTGGAGTA	900
Db	841	TTACCAACTTTAGTATGATGATCAATAGCTTAGCGGGATCAATGCACAAAGCTTGGAGTA	900
QY	901	ATAGTGAGAGAGATCTTTTGGGAGAGGTGAGTGACTTCTCCTTTAGCACCAAGTTATCA	960
Db	901	ATAGTGAGAGAGATCTTTTGGGAGAGGTGAGTGACTTCTCCTTTAGCACCAAGTTATCA	960
QY	961	GAAACACCAACCGGTAAATGATAGCCCGGTCAATGGAAATTTTACTTCAGATGCGGTATGG	1020
Db	961	GAAACACCAACCGGTAAATGATAGCCCGGTCAATGGAAATTTTACTTCAGATGCGGTATGG	1020
QY	1021	TAAATGGTCTTTTACCCAGAGTGGACCTTCTCAAGCTGGCTATATGAGTTGAAATGG	1080
Db	1021	TAAATGGTCTTTTACCCAGAGTGGACCTTCTCAAGCTGGCTATATGAGTTGAAATGG	1080
QY	1081	ATGACTTTGTTGAATCCTGATCAGATGCCCTTCTCCTTCAAGCTTGTGAGTGGTGGG	1140
Db	1081	ATGACTTTGTTGAATCCTGATCAGATGCCCTTCTCCTTCAAGCTTGTGAGTGGTGGG	1140
QY	1141	ATAGCTTATTCAGGTTTCGTCAATGTGAGTGATCAAAATCTATTTTCAGTTTTTTTTTTC	1200
Db	1141	ATAGCTTATTCAGGTTTCGTCAATGTGAGTGATCAAAATCTATTTTCAGTTTTTTTTTTC	1200
QY	1201	CTTTTCTTCGTTCTTTCAGTACTTAGAGTAGAACATGAATAGATAATCTTAAGAAAGT	1260
Db	1201	CTTTTCTTCGTTCTTTCAGTACTTAGAGTAGAACATGAATAGATAATCTTAAGAAAGT	1260
QY	1261	CATGGTTTTGAAACAGATGGACCTCCAGCGGTAAACAAAGCCTCTTTTACAATTTGAAATTCAC	1320
Db	1261	CATGGTTTTGAAACAGATGGACCTCCAGCGGTAAACAAAGCCTCTTTTACAATTTGAAATTCAC	1320
QY	1321	CAATTAGAAGAGAGCAGTTGGGTGAGTCTGTGAAAGTTCGTTTCAATATGATACCGTCAA	1380
Db	1321	CAATTAGAAGAGAGCAGTTGGGTGAGTCTGTGAAAGTTCGTTTCAATATGATACCGTCAA	1380

QY	1381	CGCCAGTCTGTTTTCAGAACAGGTGAAAGACATGGATTCTTCTGAAACAGATAGTTTACAAC	1440
Db	1381	CGCCAGTCTGTTTTCAGAACAGGTGAAAGACATGGATTCTTCTGAAACAGATAGTTTACAAC	1440
QY	1441	CTGGACATGAAATCCAGAGCCGAAATCTGACAAAGATATGACAGACATATTGGACTCGT	1500
Db	1441	CTGGACATGAAATCCAGAGCCGAAATCTGACAAAGATATGACAGACATATTGGACTCGT	1500
QY	1501	CTGCTGTTAATGCGAGCGGAAGCTACTGAAACAAATGATGCGACGACAGAAGATGTTCTGG	1560
Db	1501	CTGCTGTTAATGCGAGCGGAAGCTACTGAAACAAATGATGCGACGACAGAAGATGTTCTGG	1560
QY	1561	AGTTGACCTTAAACAAACTCTCTCAGCAGAAACCTTCCAAAAAGGAAAGAGTTTCATGC	1620
Db	1561	AGTTGACCTTAAACAAACTCTCTCAGCAGAAACCTTCCAAAAAGGAAAGAGTTTCATGC	1620
QY	1621	CCAAGTGTGCTGGAGGCAAAACCTTAAAGAAAGCCACGCAAACTCTGCAGAACTTTCCCA	1680
Db	1621	CCAAGTGTGCTGGAGGCAAAACCTTAAAGAAAGCCACGCAAACTCTGCAGAACTTTCCCA	1680
QY	1681	AAGTGTGCTGGAAGGCAAACTTAAAGAAAGCCACGCAAACTCTGCAGAACTTTCCCA	1740
Db	1681	AAGTGTGCTGGAAGGCAAACTTAAAGAAAGCCACGCAAACTCTGCAGAACTTTCCCA	1740
QY	1741	TGAAATCTTAAAGAAACCGGGAGTGCACAAAGAAATTTTGAAGAAATCAGCAACTTAAA	1800
Db	1741	TGAAATCTTAAAGAAACCGGGAGTGCACAAAGAAATTTTGAAGAAATCAGCAACTTAAA	1800
QY	1801	AGCCAGCCAAATGTTGGAGATATGAGCAACAAAGCCCTGAAAGTCACACTCAAAAGTTGCA	1860
Db	1801	AGCCAGCCAAATGTTGGAGATATGAGCAACAAAGCCCTGAAAGTCACACTCAAAAGTTGCA	1860
QY	1861	GAAAAGCTTTGAAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTT	1920
Db	1861	GAAAAGCTTTGAAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTT	1920
QY	1921	CTGAAATTTCTCAGAACAGTGTGCGCAAACTCTGTTTTCTGAGATCAGAGATGCCATTG	1980
Db	1921	CTGAAATTTCTCAGAACAGTGTGCGCAAACTCTGTTTTCTGAGATCAGAGATGCCATTG	1980
QY	1981	GTGGAACTAATGGTATGTTTCTGGATTCAGTGTCAAAATAGACAAGCAATGGATTGG	2040
Db	1981	GTGGAACTAATGGTATGTTTCTGGATTCAGTGTCAAAATAGACAAGCAATGGATTGG	2040
QY	2041	GGGCTATGAAACAGCCACTTTGAAAGTGTCAATGGGAAACAGCCAGATAACTATCTACAG	2100
Db	2041	GGGCTATGAAACAGCCACTTTGAAAGTGTCAATGGGAAACAGCCAGATAACTATCTACAG	2100
QY	2101	GAGCGAAACTGGCCAGAGACCAACCACTGATTTATTGACTAGAAACCAAGCAATGCCAGT	2160
Db	2101	GAGCGAAACTGGCCAGAGACCAACCACTGATTTATTGACTAGAAACCAAGCAATGCCAGT	2160
QY	2161	TCCCAGTGGCAACCCAGAACACCCAGTTCCTCCAAATGGAAAAACCAACAGCTTGGCTTCAG	2220
Db	2161	TCCCAGTGGCAACCCAGAACACCCAGTTCCTCCAAATGGAAAAACCAACAGCTTGGCTTCAG	2220
QY	2221	TGAAAAACCAACTTATTTGGCTTTTCCATTTGGTAAACAGCAACCTCGCATGACCATAGAA	2280
Db	2221	TGAAAAACCAACTTATTTGGCTTTTCCATTTGGTAAACAGCAACCTCGCATGACCATAGAA	2280
QY	2281	ACCAGCAGCTTGTTCGGCATGGGTAAATCAACCAACTATGTATCTGTAGGAACTCCAC	2340
Db	2281	ACCAGCAGCTTGTTCGGCATGGGTAAATCAACCAACTATGTATCTGTAGGAACTCCAC	2340
QY	2341	GGCCTGCAATTAGTAAGTGGAAACAGCAACTAGGAGGTCCCAAGGAAACAGAGCGCCTA	2400
Db	2341	GGCCTGCAATTAGTAAGTGGAAACAGCAACTAGGAGGTCCCAAGGAAACAGAGCGCCTA	2400
QY	2401	TATTTTGTGAATCACCAGACTTGTTCCTGCTGGAAATCAGCTATATGATCACCTACAG	2460
Db	2401	TATTTTGTGAATCACCAGACTTGTTCCTGCTGGAAATCAGCTATATGATCACCTACAG	2460
QY	2461	ACATGCATCAACTTGTATTGTCAACCGGAGGGGCAACCAATCGGACTACTGTATAAAAAACC	2520

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QY 1801 AGCCAGCCAAATGTTGGAGATATGAGCAACAAAGAGCCCTGAAGTTCACACTCAAAAGTTGCA 1860
Db 5225 AGCCAGCCAAATGTTGGAGATATGAGCAACAAAGAGCCCTGAAGTTCACACTCAAAAGTTGCA 5284
QY 1861 GAAAAGCTTTGAAATTTTGACTTTGGAGAAATCCCTGGAGATCGAGGCAAGGTGACTCTGACT 1920
Db 5285 GAAAAGCTTTGAAATTTTGACTTTGGAGAAATCCCTGGAGATCGAGGCAAGGTGACTCTGACT 5344
QY 1921 CTGAAATGTCGAAACAGTAGTGGCGGCAAACTCGTTTTCTGAGATCAGAGATGCCATTG 1980
Db 5345 CTGAAATGTCGAAACAGTAGTGGCGGCAAACTCGTTTTCTGAGATCAGAGATGCCATTG 5404
QY 1981 GTGGAACTAATGCTAGTGTCTCTGGATTCTAGTGTCACAAAATAGACAAGACCAATGGATTGG 2040
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QY 2041 GGGCTATGAACAGCCACTTTGAAGTGTCAATGGGAAACCCAGCCAGATATAAATCTATCTACAG 2100
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QY 2101 GAGCGAACTGGCCAGAGACCAACCTGATTATTTGACTGAAACCAAGCAATGCCAGT 2160
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Db 5585 TCCAGTGGCAACCCAGAACACCCAGTTCCTCAATGGAAACCAACCAAGCTTGGCTTCAGA 5644
QY 2221 TGAATAACCAACTATTGGCTTTTCCATTTGGTAAACCAAGCAACTCGCATGACCATAGAA 2280
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Db 5765 GGCCTGCATTAGTAAGTGGAAACCCAGCAACTAGGAGTCCCAAGGAAACAAAGCGGCCTA 5824
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Db 6185 ATTCTTTACAGCAAGATATCCATCAAGGAAATAGTACATATCTTCTCATGAGATATCCA 6244

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QY 2881 CTAAACTTTCAGGAAGCCAGGGCTCGAAGAGACAGTATCATCGTCAATGGGACACACGG 2940
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QY 3361 GGAGAAAGTCCATACAAGATTCCAGGAAAGCAAG----- 3394
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QY 3395 ----- 3394
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Db 7205 AAGAAGAGTCTTCCGAGGAAGGGCTGATTCTTCATCGCTCGCATGCACTGGTACAAGG 7264
QY 3740 ----- 3739
Db 7265 TGAAGATCCACTTCTCTTCTCAACTCCATTTTATTTCAACAAATTTAGTAGAATATCTCAA 7324

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Db 7325 AAATGATGTTTGTGTTGCAAAATTTTAAATTCACCTAGTTTAAACATGTCACAAATATTC 7384
QY 3740 ----- 3739
Db 7385 ATAATGATCTTGTGAAGAACAGGTGTGTCATTTATGGTGACAGCTGAATGTTTATGTGC 7444
QY 3740 ----- 3749
Db 7445 CTATTATTTCTTTACTGCTATAGATGACCAATTTGAACCTTTAAACGTTTACAGAGATAGA 7504
QY 3750 CGTTTTGCGCATGGAAGGATCGGTGTTGATTCGGTCAATTCGGAGTTTTCCTTACACAG 3809
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QY 3810 AATGCTCGGATCACCTTTCA----- 3830
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Db 7625 TAGAATTAACCCATGGTGTGTTTACAAATGACGCTCTGCGTTCTAGTCTGCTCG 7684
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QY 5240 TAA 5242
Db 9065 TGA 9067

RESULT 3

US-09-553-690-6

; Sequence 6, Application US/09553690

; Patent No. 6476296

; GENERAL INFORMATION:

; APPLICANT: Fischer, Robert L.

; APPLICANT: Choi, Yeonhee

; APPLICANT: Hannon, Mike

; APPLICANT: The Regents of the University of California

; TITLE OF INVENTION: Nucleic Acids That Control Seed and

; TITLE OF INVENTION: Fruit Development in Plants

; FILE REFERENCE: 023070-099900US

; CURRENT APPLICATION NUMBER: US/09/553,690

; CURRENT FILING DATE: 2000-04-21

; NUMBER OF SEQ ID NOS: 50

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 6

; LENGTH: 1478

; TYPE: DNA

; ORGANISM: Arabidopsis sp.

; FEATURE:

; OTHER INFORMATION: ATROPOS (ATR) 5' untranslated region

US-09-553-690-6

Query Match

21.5%; Score 1478; DB 4; Length 1478;


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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1478; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 361 GTGTTTCTGTTTGTGATGAGAAATATCTGACAAAAATCATTTATTCGATTTTAT 420
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DB 1441 CTGGACATGAATCCAGAGCCGAATCTGACAAAGT 1478

RESULT 4
US-09-553-690-4
; Sequence 4, Application US/09553690
; Patent No. 6476296
; GENERAL INFORMATION:
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
; APPLICANT: Hannon, Mike
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids that Control Seed and
; FILE OF INVENTION: Fruit Development in Plants
; FILE REFERENCE: 023070-099900US
; CURRENT APPLICATION NUMBER: US/09/553,690
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 205
; TYPE: DNA
; ORGANISM: Arabidopsis sp.
; FEATURE:
; OTHER INFORMATION: ATROPOS (ATR) 3' flanking sequence
US-09-553-690-4

Query Match 3.0%; Score 205; DB 4; Length 205;
Best Local Similarity 100.0%; Pred. No. 6.6e-47;
Matches 205; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

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RESULT 15
US-09-244-805-29/c
; Sequence 29, Application US/09244805
; Patent No. 6699660
; GENERAL INFORMATION:
; -APPLICANT: Worley, Paul F.
; APPLICANT: Lanahan, Anthony
; APPLICANT: Goetz, Bernard
; APPLICANT: Heimisch, Holger
; APPLICANT: Kuner, Rohini
; APPLICANT: Scheek, Sigrid
; APPLICANT: Nikolich, Karoly
; APPLICANT: Zhukovski, Eugene
; TITLE OF INVENTION: IMMEDIATE EARLY GENES AND METHODS OF USE
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: 10496/004001
; CURRENT APPLICATION NUMBER: US/09/244,805
; CURRENT FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/074,518
; PRIOR FILING DATE: 1998-02-12
; PRIOR APPLICATION NUMBER: 60/074,135
; PRIOR FILING DATE: 1998-02-06
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 2527
; TYPE: DNA
; ORGANISM: Eukaryote
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (41) ... (871)
US-09-244-805-29

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